CATALOGO GENERALE

General catalogue

www.rpesrl.it

MADE IN ITALY

Indice

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Storia aziendale

Company story

RPE nasce nel 1971, dall'idea di un lungimirante fondatore e attuale presidente Giuliano Ravazzani.

Da azienda operante nei settori delle elettro-serrature e dei programmatori per lavatrici, in qualche anno inizia l'avventura nel mondo delle elettrovalvole.

Prima degli anni `80 gli impianti vengono dotati di macchine ad iniezione per stampare, di bobinatrici e di transfer di montaggio e di collaudo.

Oggi RPE **è un punto di riferimento nel mercato delle elettrovalvole a livello internazionale**, questo anche grazie alla continua evoluzione nel mondo delle certificazioni alimentari ed elettriche.

RPE was founded in 1971, from the idea of the visionary founder and current president Giuliano Ravazzani.

By company operating in the fields of electro-locks and programmers for washing machines, in some years the adventure begins in the world of electro-valves.

Before 80's plants were equipped with injection molding machines for printing, with winders and transfer for assembly and testing.

Today RPE **is a benchmark in the international market for solenoid**, this is also thanks to the continuous evolution in the world of food and electrical certifications.

Certificazioni

Certifications

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and SQS
hereby certify that the organisation

R.P.E. S.r.l.
Via S. Ambrogio, 3
22070 Carbonate (CO)
Italy

Certified area

Entire site

Field of activity

Design and Production Solenoid valves – Coils – Thermoplastic Moulding

has implemented and maintains a
Management System
which fulfills the requirements of the following standard(s)

ISO 9001:2008

Scope No(s): 14, 19
Issued on: 2014-12-20
Validity date: 2017-12-19
Registration Number: ***CH-32155***

Michael Drechsel
President of IQNet

Roland Glauser
CEO SQS

IQNet Partners*:
AENOR Spain AFNOR Certification France AIB-Vincotte International Belgium ANCE-SIGE Mexico APCER Portugal CCC Cyprus
CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany
FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia IMNC Mexico Inspecta Certification Finland IRAM Argentina
JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland
Quality Austria Austria RR Russia SII Israel SIQ Slovenia SIRIM QAS International Malaysia
SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia
IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.
* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

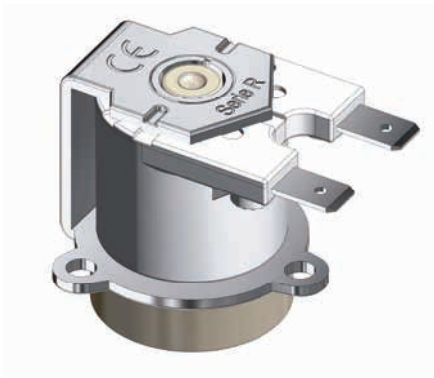
Nulla di grande è mai stato fatto senza passione

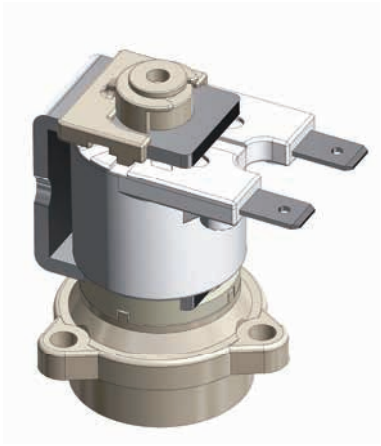
Nothing great has ever been done without passion

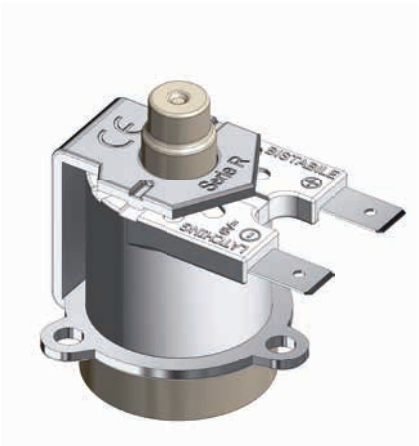
www.rpesrl.it

Serie R - Piloti servo-comandati

R Series - Servo-controlled Pilots







DESCRIZIONE

Nelle elettrovalvole servo-comandate il funzionamento non dipende unicamente dal campo magnetico prodotto dalla bobina ma anche da una differenza di pressione del fluido tra ingresso e uscita dell'elettrovalvola. Questa differenza di pressione corrisponde alla forza necessaria per muovere la membrana o tenerla posizionata sul foro principale.
Tale valore è denominato "minima pressione di funzionamento".
Dal punto di vista costruttivo, le elettrovalvole servo-comandate sono dotate di una membrana che chiude il diametro nominale della valvola; sulla membrana è posto un foro pilota controllato da un elettromagnete.
Quando l'elettromagnete viene eccitato, il nucleo apre il foro pilota permettendo alla pressione presente sulla parte superiore della membrana di defluire verso l'uscita della valvola.
In questo modo si crea uno squilibrio di pressione sulla membrana tale da sollevarla e permettere il pieno passaggio della valvola.
Quando l'elettromagnete viene diseccitato, il foro pilota si chiude e la pressione viene ripristinata sulla membrana favorendo la chiusura della valvola (il fluido passa attraverso un "foro di equalizzazione").

DESCRIPTION

In the servo-controlled solenoid valves operation does not depend solely by the magnetic field produced by the coil but also by the difference in fluid pressure between upstream and downstream of the solenoid valve. This difference corresponds to the force necessary to move a diaphragm or keep it positioned on the main orifice.
This value is called the "minimum operating pressure".
The servo-controlled solenoid valves are equipped with a diaphragm which closes the main orifice of the valve; a pilot orifice controlled by an electromagnet is placed on the diaphragm.
When the electromagnet is energized, the core opens the pilot orifice allowing the pressure on the top of the diaphragm to flow towards the outlet of the valve.
In this way it creates an imbalance of pressure on the diaphragm such as to lift it and open the full passage of the valve.
When the electromagnet is de-energized, the pilot orifice closes and the pressure on the diaphragm is restored helping the closing of the valve (the fluid passes through an "equalization orifice").

CERTIFICAZIONI / CERTIFICATIONS

Serie R - Membrane

R Series - Diaphragms

CARATTERISTICHE	
Modello:	NBR
Materiale inserto:	POM / PPS
Approvazione alimentare:	Su richiesta

SPECIFICATIONS	
Model:	NBR
Insert material:	POM / PPS
Food approval:	On demand

CARATTERISTICHE	
Modello:	LSR
Materiale inserto:	POM / PPS
Approvazione alimentare:	Si

SPECIFICATIONS	
Model:	LSR
Insert material:	POM / PPS
Food approval:	Yes

CARATTERISTICHE	
Modello:	EPDM 8 fori
Materiale inserto:	POM / PPS
Approvazione alimentare:	Si

SPECIFICATIONS	
Model:	EPDM 8 orifices
Insert material:	POM / PPS
Food approval:	Yes

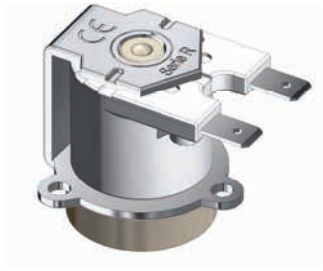
CARATTERISTICHE	
Modello:	LSR 8 fori
Materiale inserto:	POM / PPS
Approvazione alimentare:	Si

SPECIFICATIONS	
Model:	LSR 8 orifices
Insert material:	POM / PPS
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	✓	✓	✓	✓	✓	✓
LSR	✓	✓	✓	✓	✓	✓
EPDM 8 FORI		✓				✓
LSR 8 FORI		✓				✓

Serie R - Piloti

R Series - Pilots



NORMALMENTE CHIUSA

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).

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.

NORMALLY CLOSED

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).

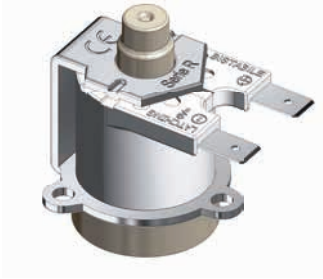
NC (low consuption)
The PWM pilot (Pulse Width Modulation), called low consuption, needs the adoption of an electronic circuit able to transform the supply voltage into modulated pulses, offering the advantage of energy saving.

NORMALMENTE APERTA

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).

NORMALLY OPEN

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).



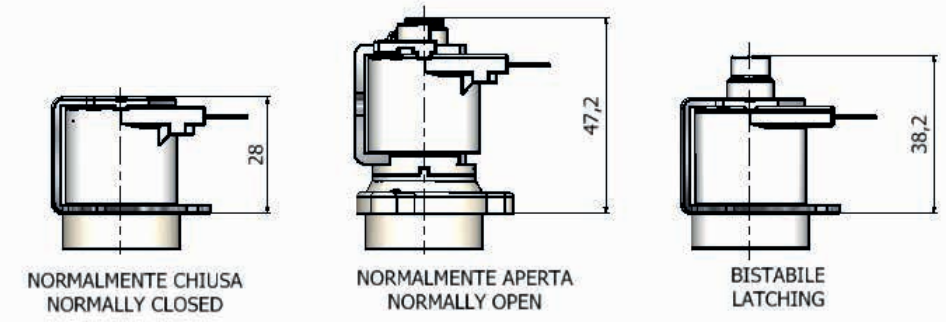
BISTABILE

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.

LATCHING

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.

QUOTA A / A DIMENSION

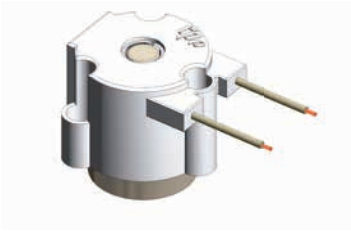


Serie R - Connessioni elettriche

R Series - Electrical connections

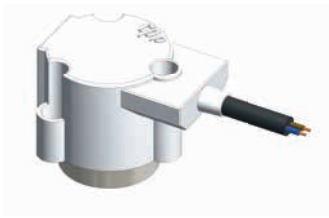
CARATTERISTICHE	
Tipologia:	Faston
Dimensioni:	6,3 x 0,8 mm
Protezione:	IP X0

SPECIFICATIONS	
Type:	Faston
Dimensions:	6,3 x 0,8 mm
Protection:	IP X0



CARATTERISTICHE	
Tipologia:	Cavi Unipolari
Lunghezze:	Standard 300 mm; custom max 5000 mm
Protezione:	IP 55

SPECIFICATIONS	
Type:	Unipolar wires
Length:	Standard 300 mm; custom max 5000 mm
Protection:	IP 55



CARATTERISTICHE	
Tipologia:	Cavi Bipolari
Lunghezze:	300; 620; 1020; 1450; 2000; 2500 mm; custom max 5000 mm
Protezione:	IP 55

SPECIFICATIONS	
Type:	Bipolar wires
Length:	300; 620; 1020; 1450; 2000; 2500 mm; custom max 5000 mm
Protection:	IP 55

CARATTERISTICHE	
Tipologia:	Connettore IP 68 Maschio
Lunghezza:	150 mm
Protezione:	IP 55

SPECIFICATIONS	
Type:	Male IP 68 Connector
Length:	150 mm
Protection:	IP 55

CARATTERISTICHE	
Tipologia:	Connettore IP 68 Femmina
Lunghezza:	150 mm
Protezione:	IP 55

SPECIFICATIONS	
Type:	Female IP 68 Connector
Length:	150 mm
Protection:	IP 55

GRADO DI PROTEZIONE	
IP XO:	Nessuna protezione contro il contatto di corpi solidi esterni e contro la penetrazione dei liquidi.
IP 55:	Involucro protetto contro la polvere e i getti d'acqua.
IP 68:	Totalmente protetto contro la polvere e contro gli effetti della sommersione.

PROTECTION DEGREE	
IP XO:	No protection against contact with external solid and against the penetration of liquids.
IP 55:	Wrap protected against dust and water jets.
IP 68:	Totally protected against dust and against the effects of submersion.

Serie R - Solenoidi

R Series - Solenoids

			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	cosφ	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 (15 ms)	/	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%			Enec	✓	✓

(*) Materiali approvati UL / UL approved materials.

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

(***) I cavi unipolari e bipolari non sono disponibili per le valvole della Serie R Doppia, Tripla e Quadrupla
Unipolar and bipolar wires are not available for R Series Double, Triple and Quadruple.

(****) Bobina trattata con impregnazione / Coated solenoid

Serie R - Piloti a basso assorbimento

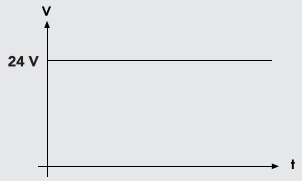
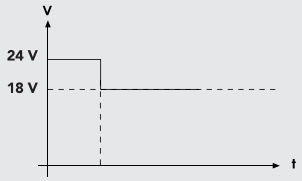
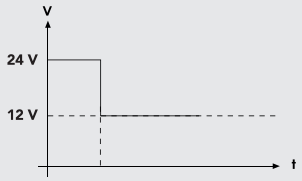
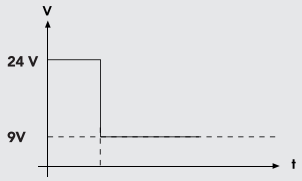
R Series - Low consuption Pilots

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

Serie R - Piloti bistabili

R Series - Latching Pilots

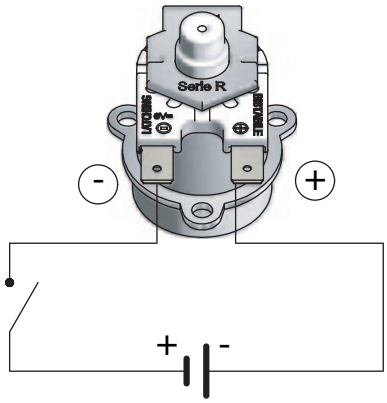
COMANDO DI APERTURA
opening control

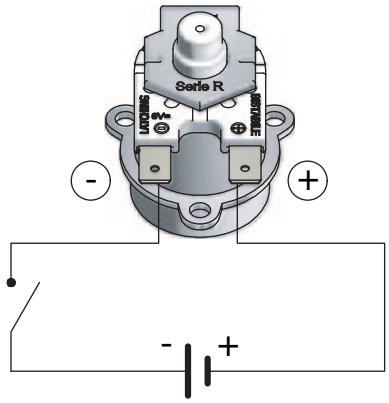
COMANDO DI CHIUSURA
closing control

ON

FASTON

OFF

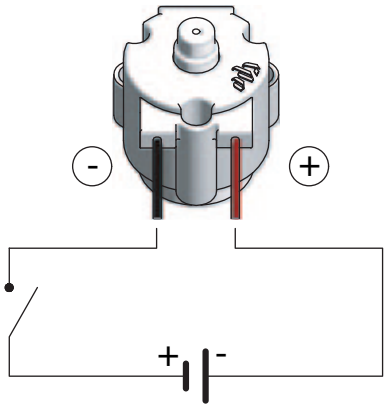


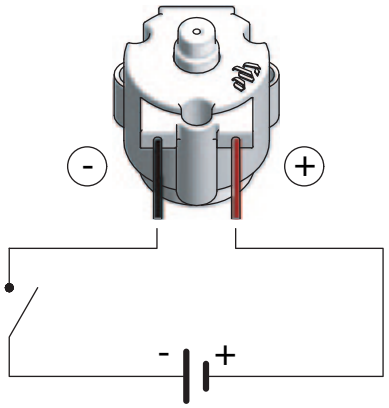


ON

CAVI
Wires

OFF

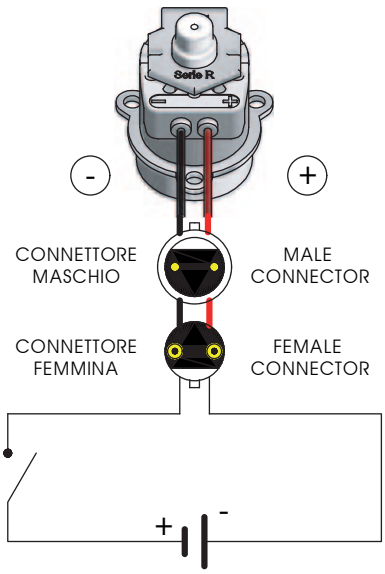


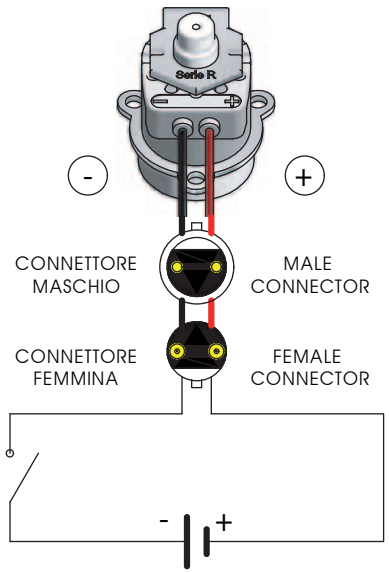


ON

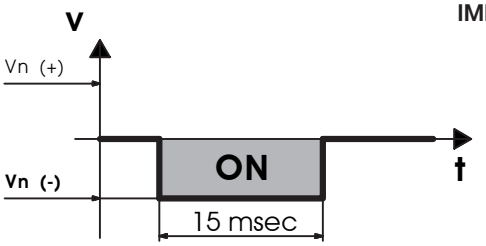
CONNETTORI IP 68
IP 68 connectors

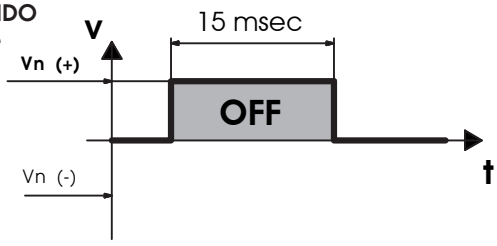
OFF





IMPULSI DI COMANDO
Control impulse





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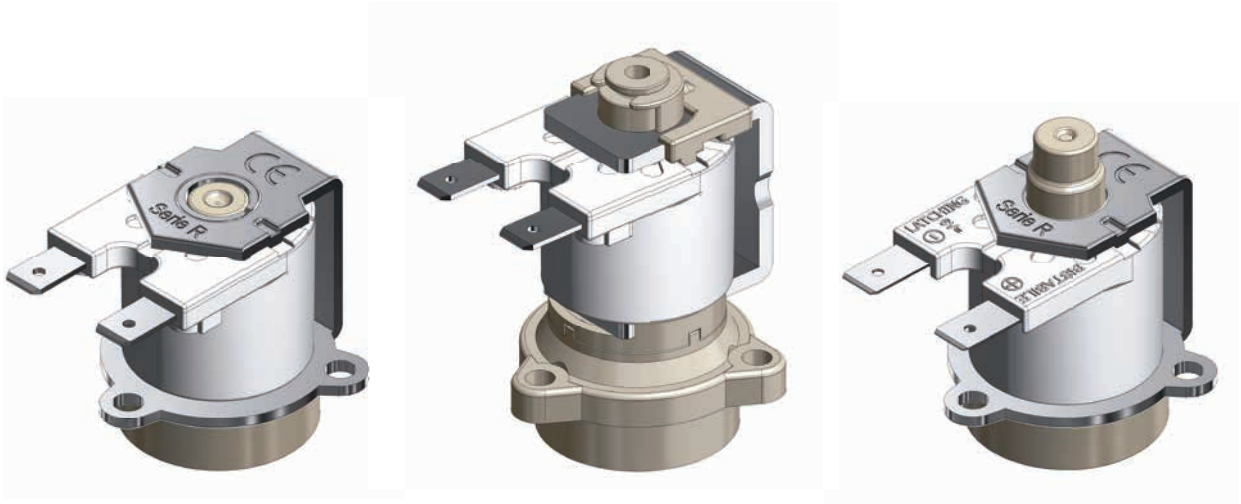
Serie R - Piloti diretti

R Series - Direct Pilots



DESCRIZIONE

Nelle elettrovalvole della serie diretta il funzionamento dipende unicamente dall'azione e dalla potenza del pilota.
Il funzionamento non dipende, come nel caso della serie servo-comandata, dalla pressione del fluido o dalla portata.
Quando l'elettromagnete viene eccitato, il nucleo apre il foro pilota.
Quando l'elettromagnete viene diseccitato, il nucleo chiude il foro pilota.
L'elettrovalvola con pilota della serie diretta può funzionare anche con una pressione di 0 bar, per questo motivo è ideale per impieghi a basse portate e a bassa o assente pressione di esercizio.

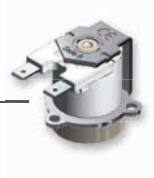
DESCRIPTION

In the direct solenoid valves operation depends solely by the action and power produced by the coil.
The operation does not depend, as in the case of the servo-controlled series, by the fluid pressure or the flow rate. When the electromagnet is energized, the core opens the pilot orifice.
When the electromagnet is deenergized, the core closes the pilot orifice.
The solenoid valve with direct series coil can also operate with a pressure from 0 bar; for this reason it is ideal for application with low flow rates and low (or no) pressure.

CERTIFICAZIONI / CERTIFICATIONS

Serie R - Inserti

R Series - Inserts



CARATTERISTICHE	
Orifizio:	0,8 mm
Materiale inserto:	POM
Approvazione alimentare:	Si

SPECIFICATIONS	
Orifice:	0,8 mm
Insert material:	POM
Food approval:	Yes

CARATTERISTICHE	
Orifizio:	1,6 mm
Materiale inserto:	POM
Approvazione alimentare:	Si

SPECIFICATIONS	
Orifice:	1,6 mm
Insert material:	POM
Food approval:	Yes

CARATTERISTICHE	
Orifizio:	2 mm
Materiale inserto:	POM
Approvazione alimentare:	Si

SPECIFICATIONS	
Orifice:	2 mm
Insert material:	POM
Food approval:	Yes

CARATTERISTICHE	
Orifizio:	4 mm
Materiale inserto:	POM
Approvazione alimentare:	Si

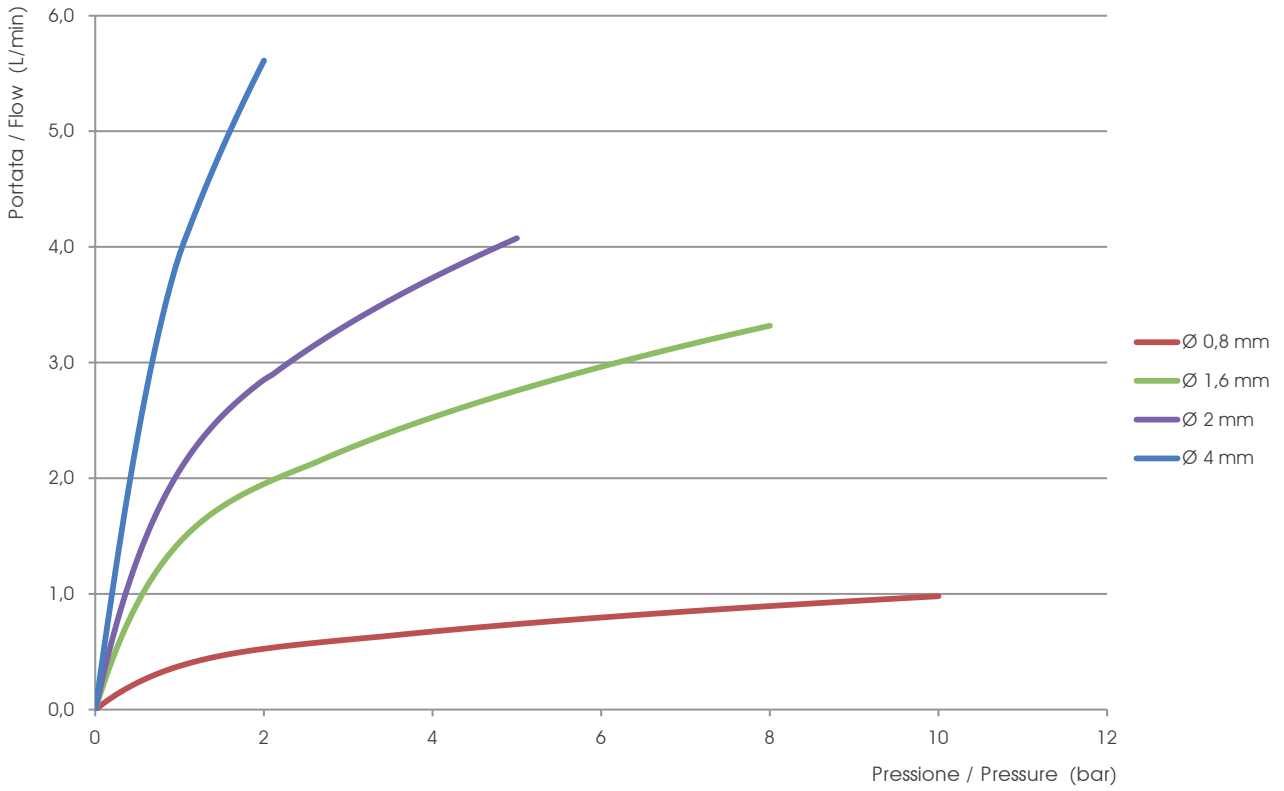
SPECIFICATIONS	
Orifice:	4 mm
Insert material:	POM
Food approval:	Yes

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 mm	✓	✓	✓	✓	✓	✓
4 mm	✓	✓	✓	✓	✓	✓

Serie R - Piloti diretti

R Series - Direct Pilots

GRAFICO PORTATE / FLOW RATES CHART



	E9400000 230V	E9400000 24AC	E9400000 24AC E9400020 24DC GW	E9400020 12VGW E9400000 12V	E9400020 12VGW E9400000 12V	E9400000 12DC	E9400800 230V
Tensione Voltage	230 V AC	24 V AC	24 V DC	12 V AC-DC (AC)	12 V AC-DC (DC)	12V DC	220-240 V AC
Frequenza Frequency	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
Potenza Power	8,39 VA	7,24 VA	6,35 W	4,38 VA	8,52 W	5,4 W	12,65 VA
ED (funzionamento) (duty cycle)	ED 100%	ED 100%	ED 100%	ED 100%	ED 100%	ED 100%	3 min ON 5 min OFF
	⬇	⬇	⬇	⬇	⬇	⬇	⬇
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
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
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
E9400001	230 V AC	24 V AC	24 V DC	12 V AC-DC (AC)	12 V AC-DC (DC)	12V DC	220-240 V AC
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

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

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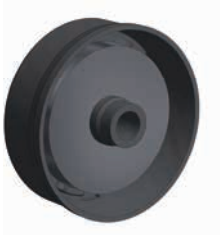
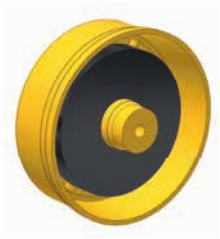
Serie R - Regolatori di flusso in entrata

R Series - Inlet flow regulators





CARATTERISTICHE FISICHE

Montabile su:	Tutte le connessioni 3/4" M
Struttura:	POM
Compensatore:	NBR / LSR

PHYSICAL SPECIFICATIONS

Can be fitted on:	All 3/4" M connections
Holder:	POM
Flow adjuster:	NBR / LSR

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 - 10 bar
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

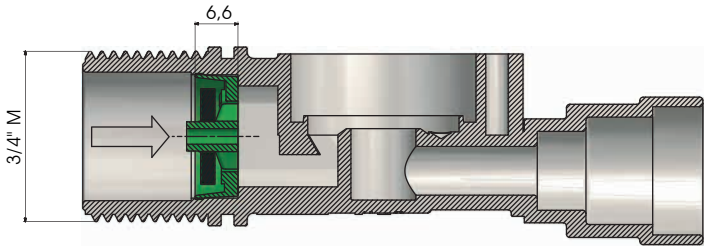
Working pressure:	0 - 10 bar
Fluid direction:	Unidirectional

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

Serie R - Regolatori di flusso in entrata

R Series - Inlet flow regulators

Dettaglio sede regolatore Regulator seat detail



Misure in millimetri - Dimensions in millimeters

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

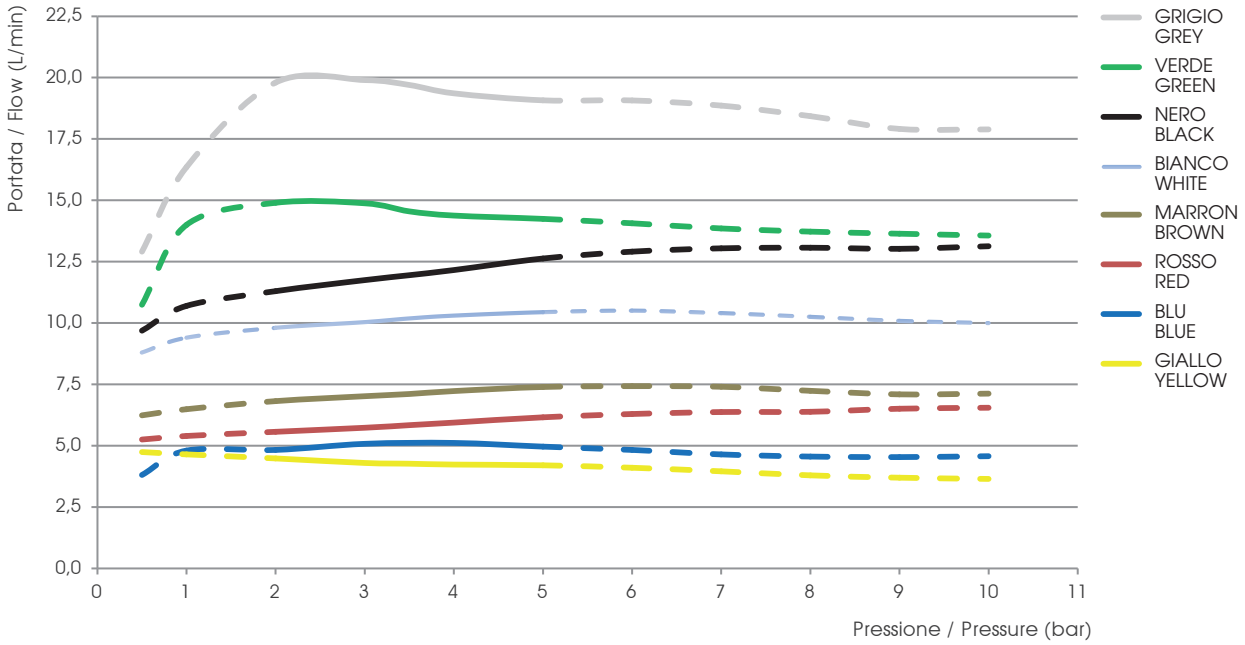
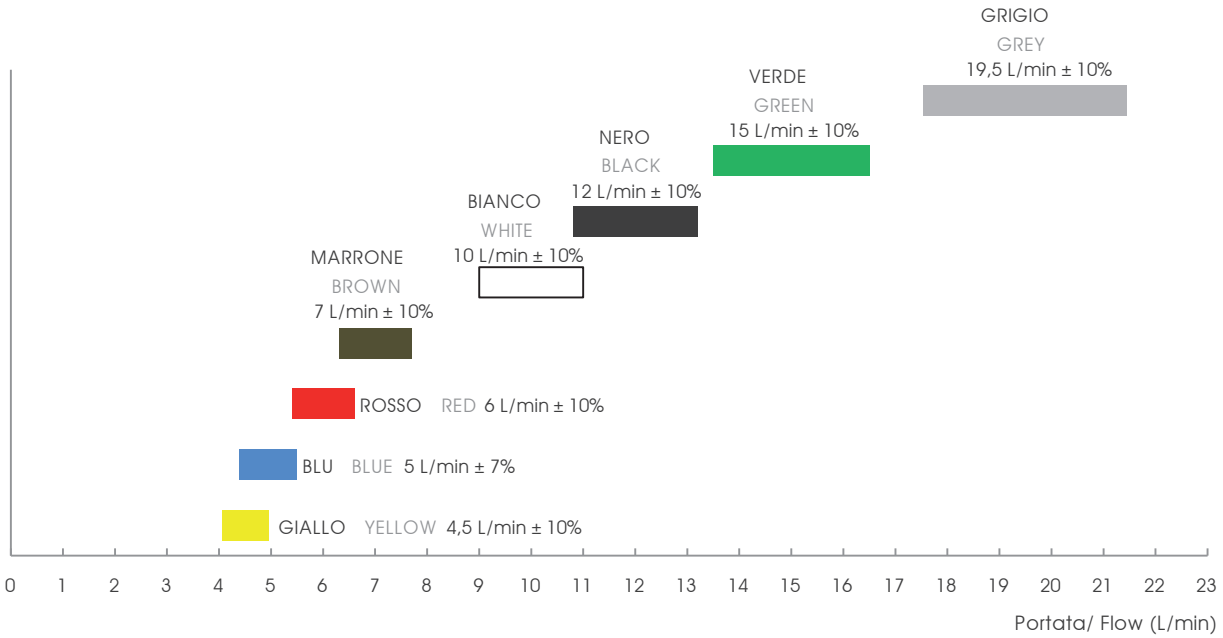


GRAFICO PORTATE / FLOW RATES CHART



Serie R - Riduttori di portata in uscita

R Series - Outlet flow restrictors

CARATTERISTICHE FISICHE

Montabile su:	Connessioni 8 - 10 mm
Struttura:	POM
Compensatore:	NBR / LSR

PHYSICAL SPECIFICATIONS

Can be fitted on:	8 - 10 mm connections
Holder:	POM
Flow adjuster:	NBR / LSR

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 - 10 bar
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0 - 10 bar
Fluid direction:	Unidirectional

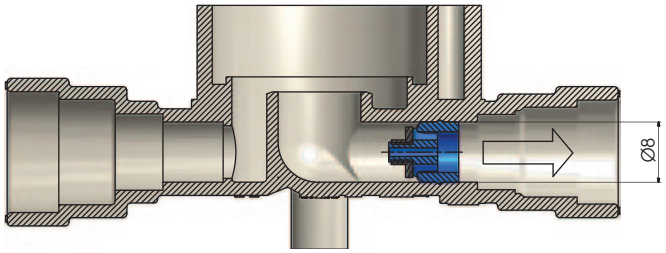
Colore Color	Portata Flow rate L/min	Portata Flow rate GAL/min	Tolleranza * Tolerance *	Compensatore in LSR Flow adjuster in LSR	M.O.Q. (pcs)
Beige	0,08 L/min	0.02 GAL/min	± 0,05 L/min	✓	1000
Marrone / Brown	0,10 L/min	0.03 GAL/min	± 0,05 L/min		1000
Rosa / Pink	0,15 L/min	0.04 GAL/min	± 0,05 L/min	✓	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.

Serie R - Riduttori di portata in uscita

R Series - Outlet flow restrictors

Dettaglio sede Riduttore Restrictor seat detail



Misure in millimetri - Dimensions in millimeters

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

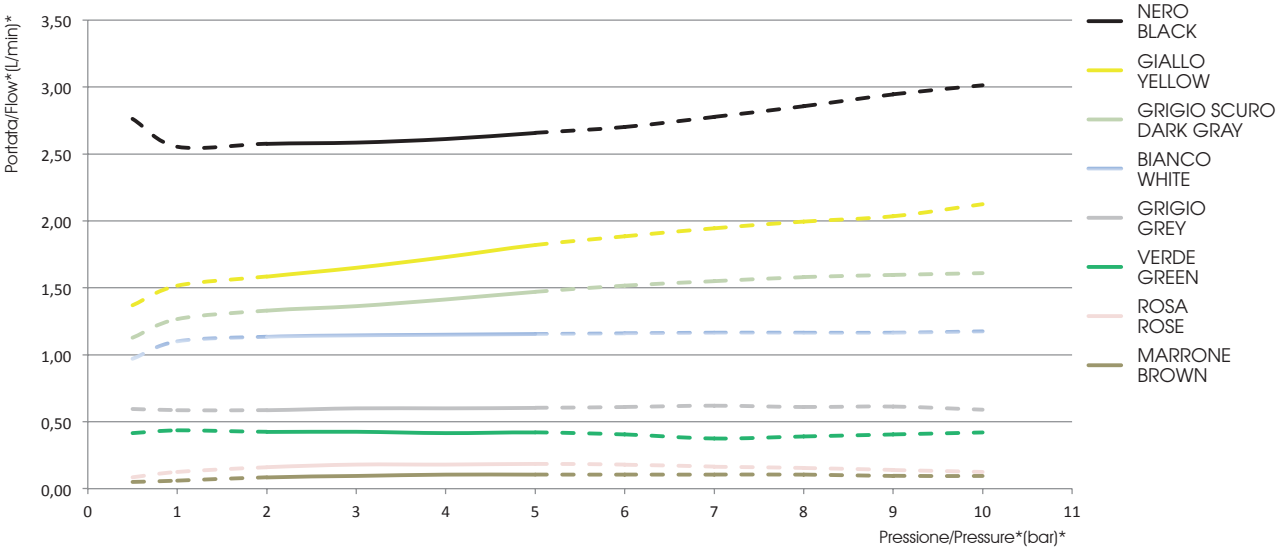
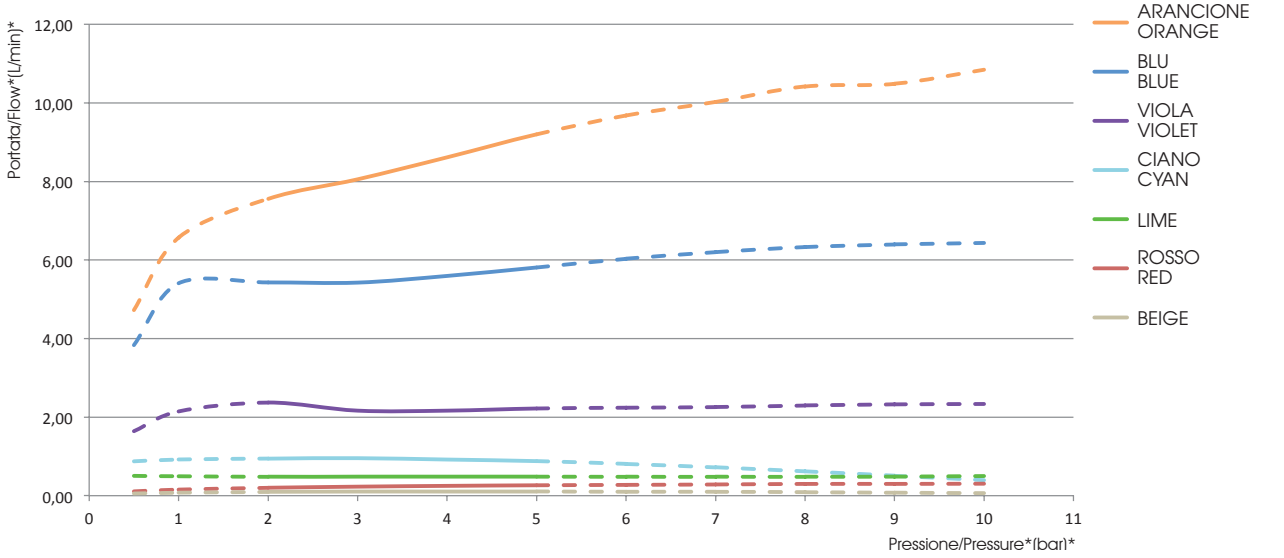


GRAFICO PORTATE / FLOW RATES CHART (Tu 60°C - Tm 25°C)



Serie R - Riduttori di portata in uscita

R Series - Outlet flow restrictors

GRAFICO PORTATE / FLOW RATES CHART

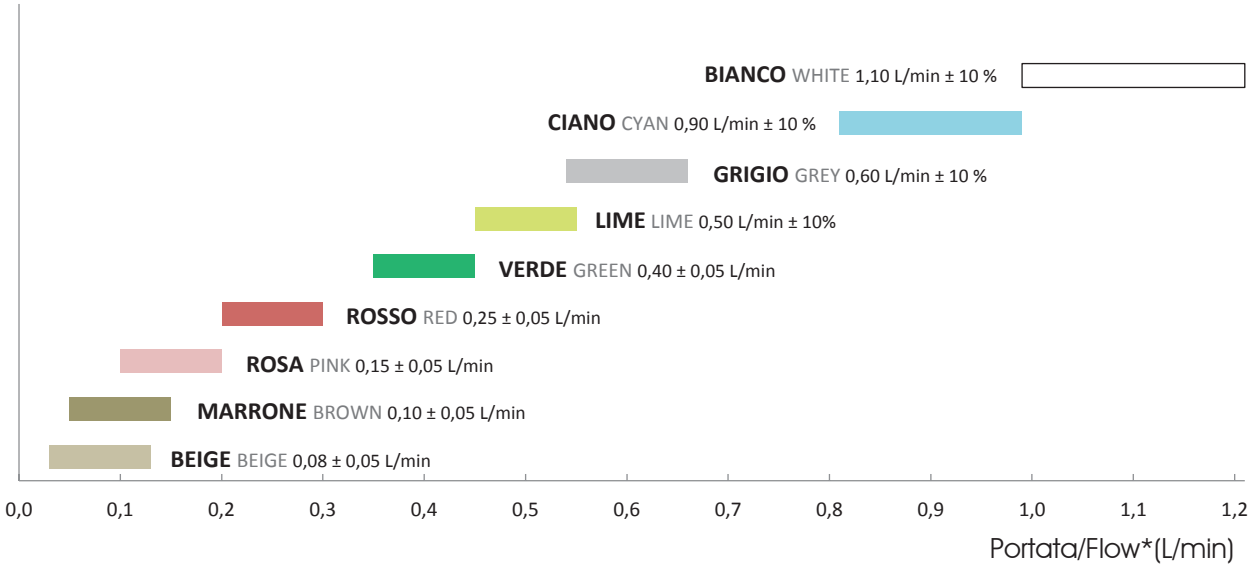
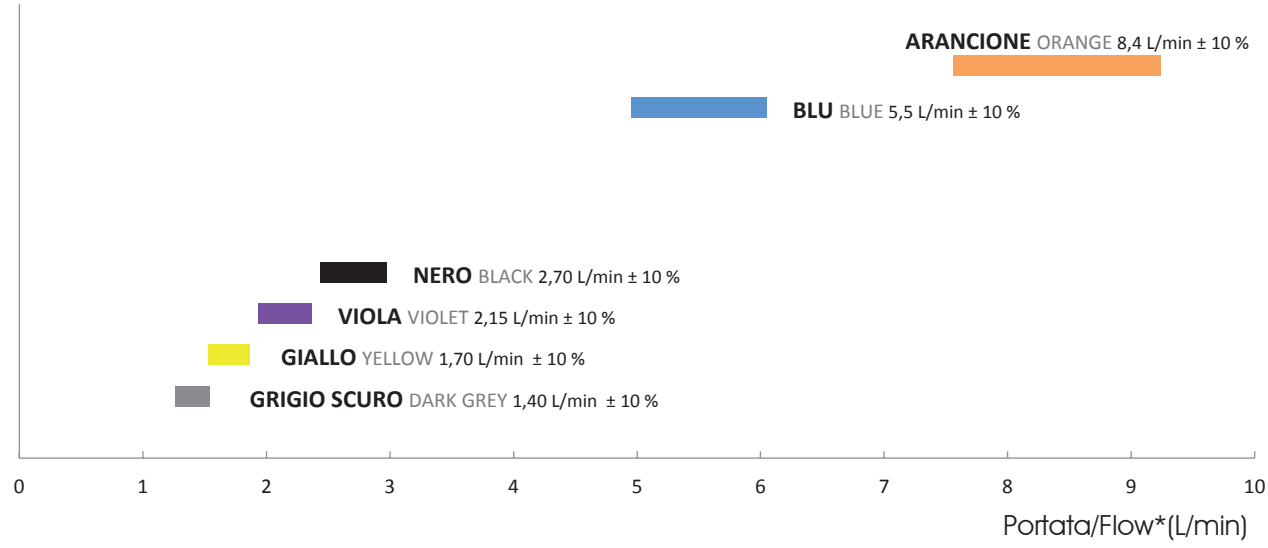


GRAFICO PORTATE / FLOW RATES CHART



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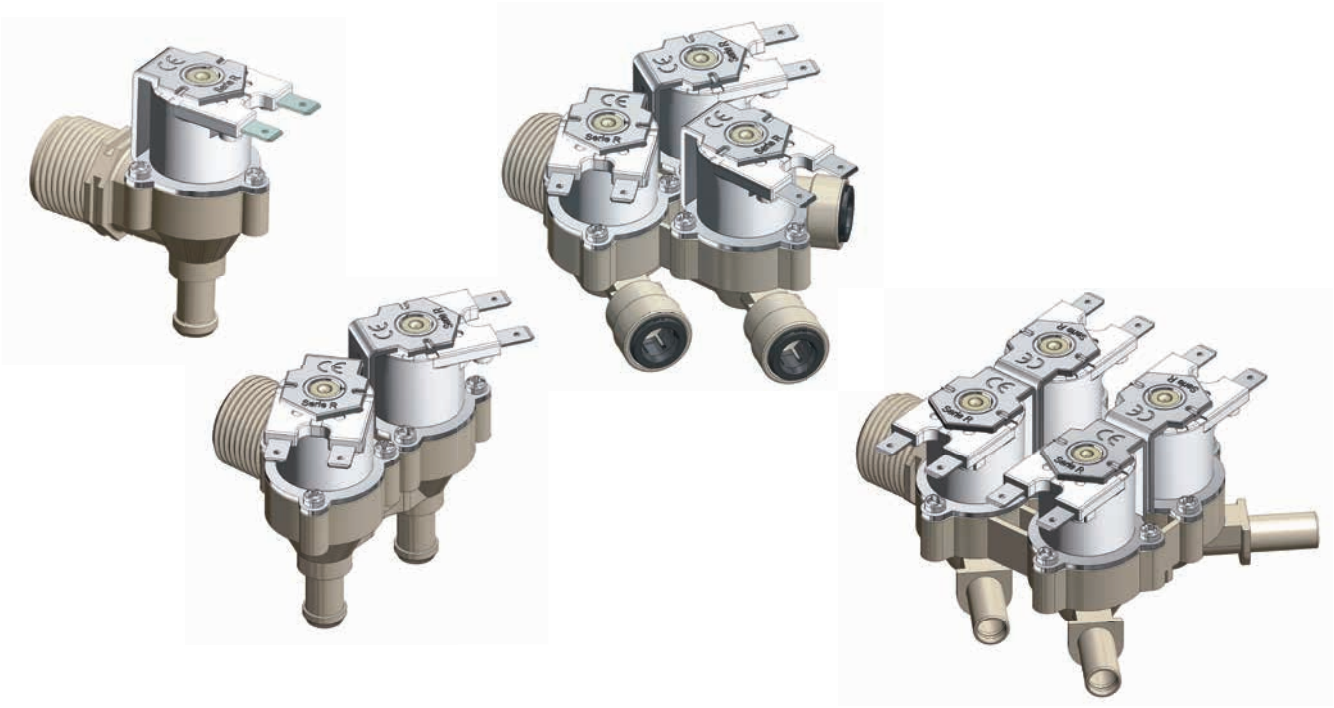
Serie R - Semplice - Doppia - Tripla - Quadrupla

R Series - Single - Double - Triple - Quadruple



CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR; LSR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR; LSR
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,2 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C - Tm 60° C - ED 100% Tm 90° C (3 ON - 5 OFF)
Diametro nominale:	DN 8 mm; DN 10 mm
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale
CV 90°:	Semplice 21,55 L/min Doppia 13,00 L/min Tripla 16,31 L/min Quadrupla 13,34 L/min
CV 180°:	Semplice 16,96 L/min Doppia 12,26 L/min Tripla 15,19 L/min Quadrupla 12,41 L/min

WORKING SPECIFICATIONS

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 ON - 5 OFF)
Orifice:	ND 8 mm; ND 10 mm
Control:	NC; NO; Latching
Fluid direction:	Unidirectional
CV 90°:	Single 21,55 L/min Double 13,00 L/min Triple 16,31 L/min Quadruple 13,34 L/min
CV 180°:	Single 16,96 L/min Double 12,26 L/min Triple 15,19 L/min Quadruple 12,41 L/min

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm (solo per la Serie R Semplice)
Cavi bipolari max 5000 mm (solo per la Serie R Semplice)

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 5000 mm (only for R Series Single)
Bipolar wires max 5000 mm (only for R Series Single)

CERTIFICAZIONI / CERTIFICATIONS

WRAS APPROVED PRODUCT · ACS ATTESTATION DE CONFORMITÉ SANITAIRE · EN 03 · c UL us · CE · NSF · DM 174/2001 · KTW W270

Serie R - Semplici

R Series - Single

90°

Modello Model	IN 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)
151	3/4" M	PG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
152	3/4" M	PG 13 mm	8 mm		✓	✓	✓	✓	✓	✓
155	3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓		
190	3/4" M	3/8" M	10 mm		✓	✓	✓	✓	✓	✓
161	3/4" M	Codolo 10 mm	10 mm		✓	✓	✓	✓	✓	✓
183	3/4" M	JG 6 mm	10 mm		✓	✓	✓	✓	✓	✓
189	3/4" M	JG 8 mm	10 mm		✓	✓	✓	✓	✓	✓
180	3/4" M	JG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
185	3/4" M	JG 12 mm	10 mm		✓	✓	✓	✓	✓	✓

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

180°

Modello Model	IN 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	3/4" M	PG 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
154	3/4" M	PG 13 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
156	3/4" M	1/4" M	10 mm	✓	✓	✓	✓	✓	✓	✓
157	3/4" M	3/4" M	10 mm	✓	✓	✓	✓	✓		
158	3/4" M	Codolo 10 mm"	10 mm	✓	✓	✓	✓	✓	✓	✓
162	3/4" M	JG 1/4"	10 mm	✓	✓	✓	✓	✓	✓	✓
163	3/4" M	JG 6 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
159	3/4" M	JG 8 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
160	3/4" M	JG 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
164	3/4" M	JG 12 mm	10 mm	✓	✓	✓	✓	✓		

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

Modello Model		IN	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)
90°	191	1/2" M	1/2" M	10 mm					✓	✓	✓
180°	193	JG 6 mm	3/8" M	10 mm				✓		✓	✓
180°	165	JG 8 mm	JG 10 mm	10 mm				✓		✓	✓
180°	174	JG 10 mm	JG 8 mm	10 mm				✓		✓	✓

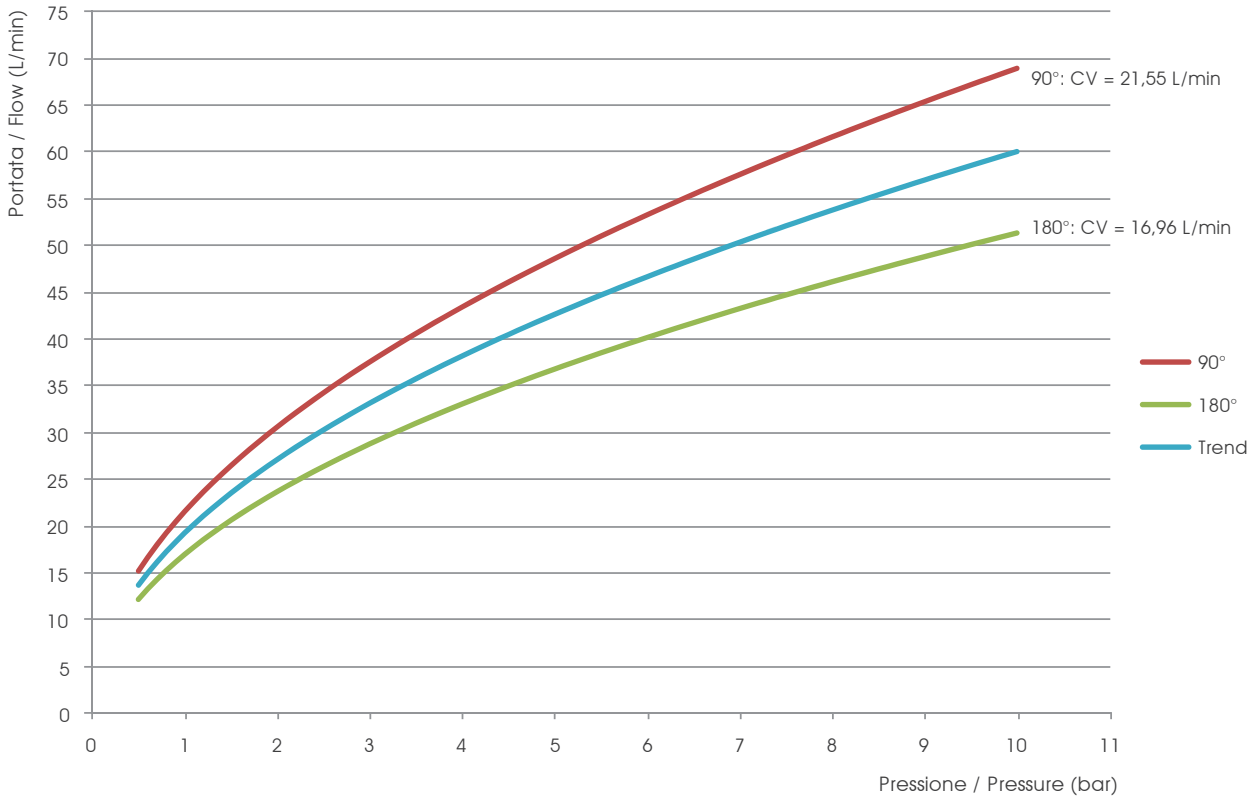
Legenda / Key:
PG = Portagomma / Hose tail JG = Attacco rapido / Quick coupling Codolo = Spigot

Serie R - Semplici

R Series - Single

M.O.Q.	
Singola / Single 90°:	120 pcs
Singola / Single 180°:	160 pcs

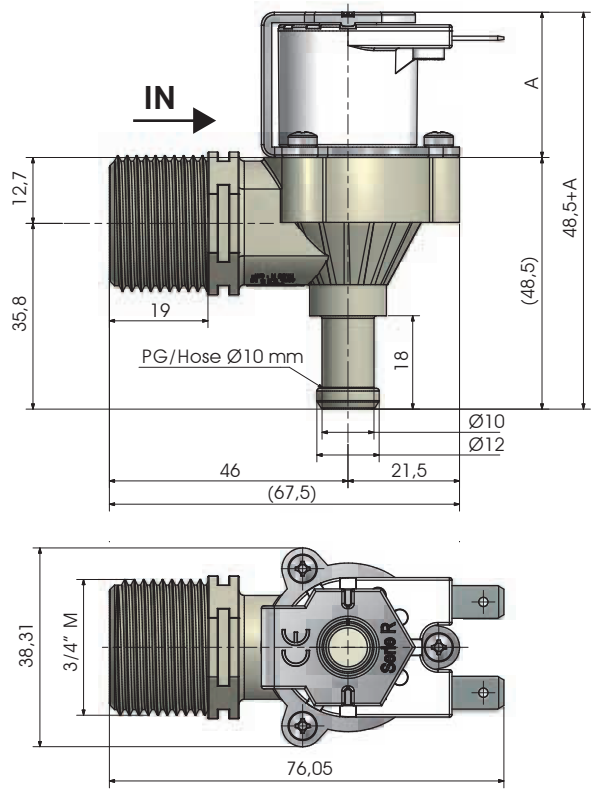
GRAFICO PORTATE SERIE R SEMPLICE (Ø10 MM) / FLOW RATES CHART R SERIES SINGLE (Ø10 MM)



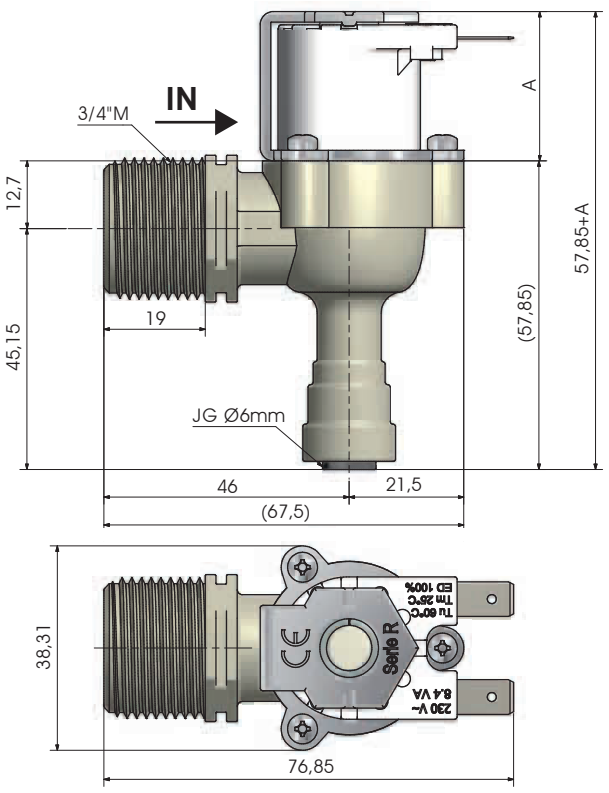
Serie R - Semplici

R Series - Single

151 90°

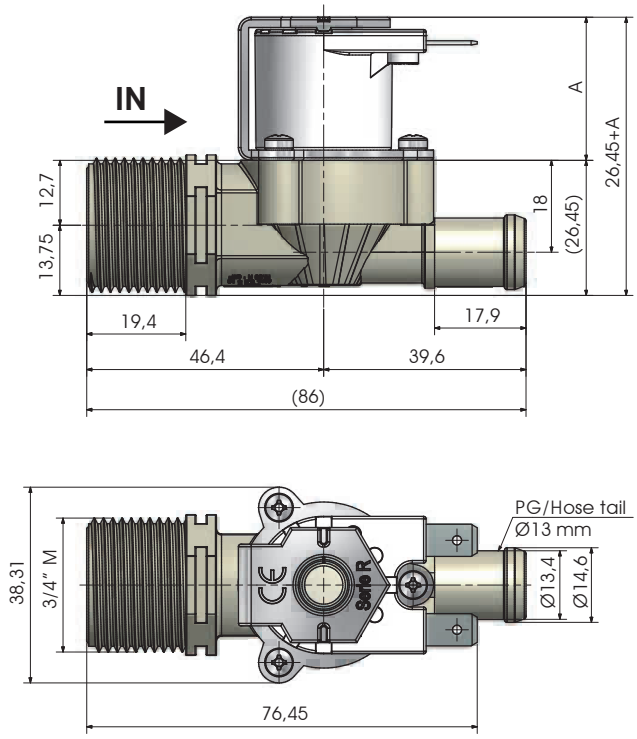


183 90°

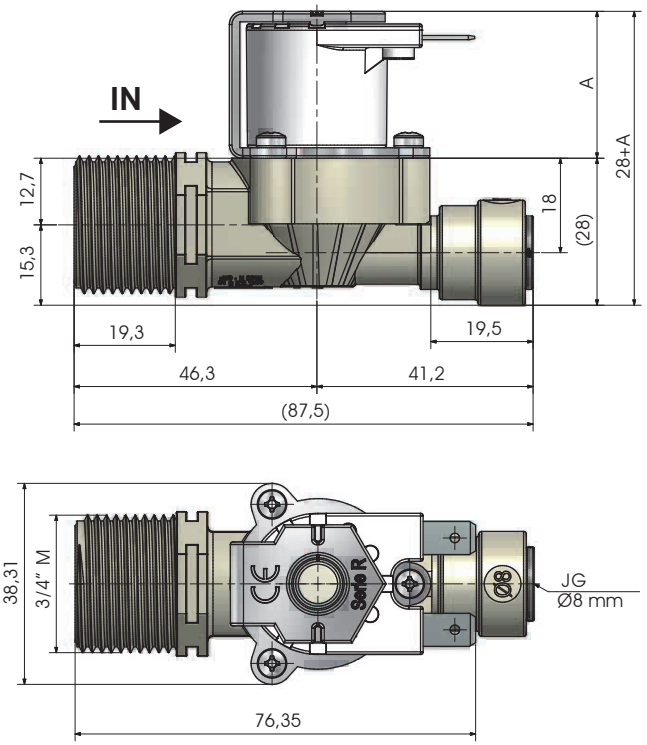


Misure in millimetri - Dimensions in millimeters

153 180°



159 180°

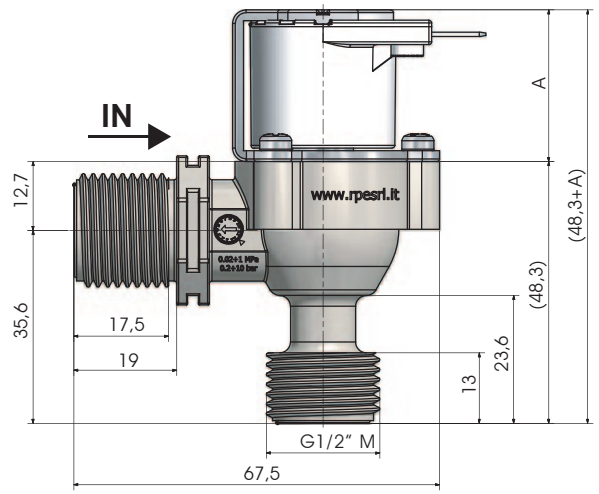


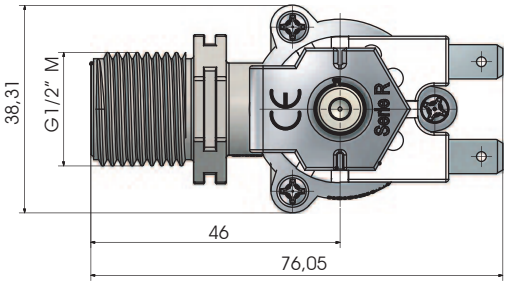
Misure in millimetri - Dimensions in millimeters

Serie R - Semplici

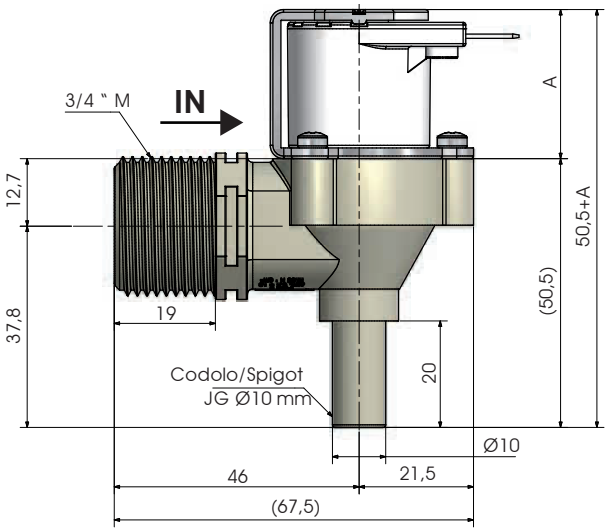
R Series - Single

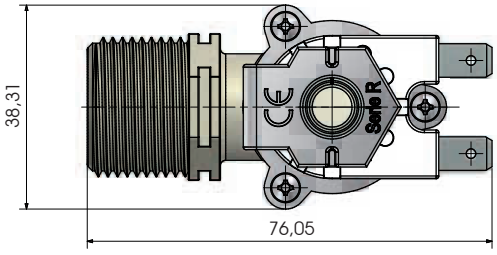
191 — 90°





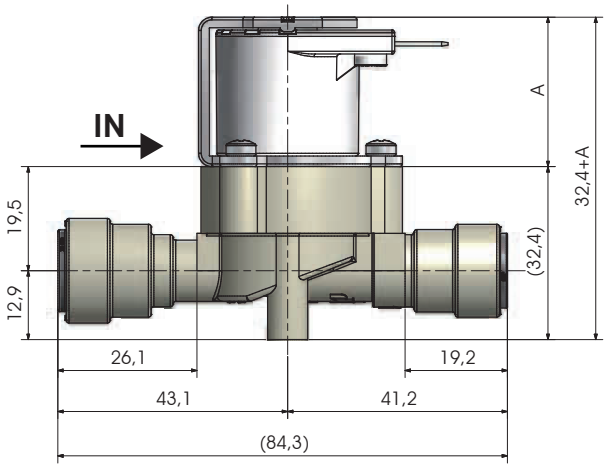
161 — 90°

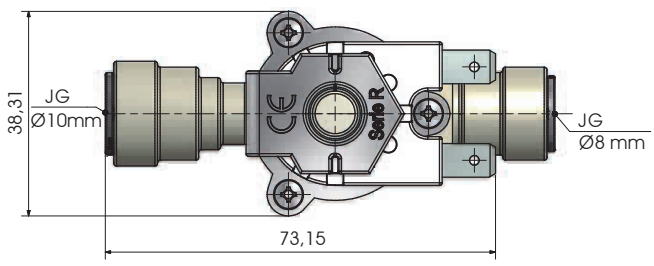




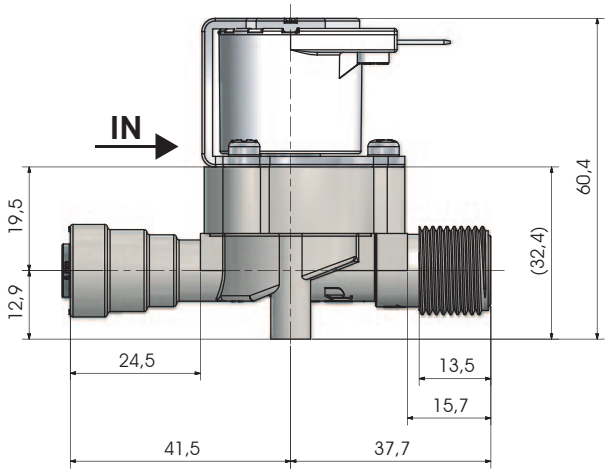
Misure in millimetri - Dimensions in millimeters

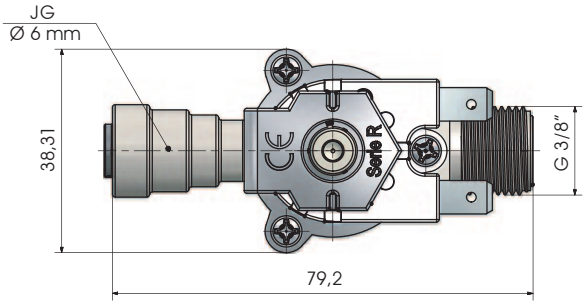
174 — 180°





193 — 180°





Serie R - Doppie

R Series - Double

90°

Modello Model	IN 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	3/4" M	PG 10 mm	8 mm		✓	✓	✓	✓	✓	✓
252	3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓	✓	✓
255	3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓		

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

180°

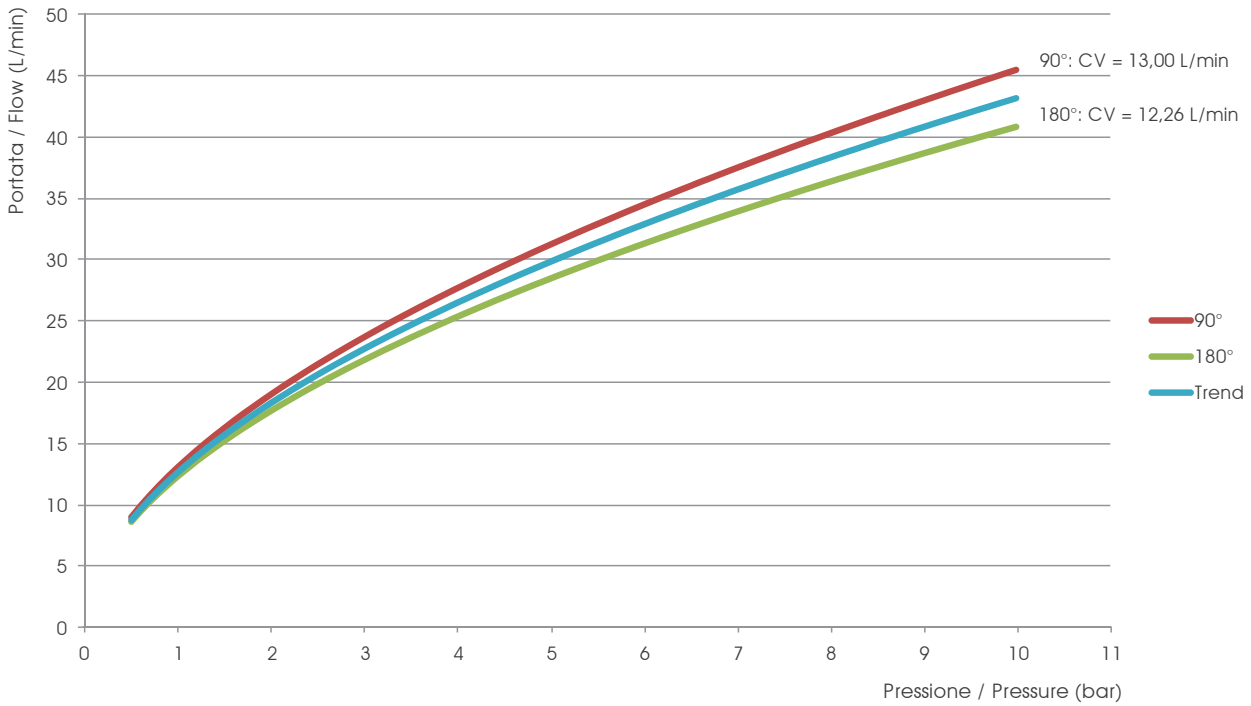
Modello Model	IN 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
253	3/4" M	PG 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
254	3/4" M	PG 13 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
256	3/4" M	1/4" M	10 mm	✓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

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

M.O.Q.

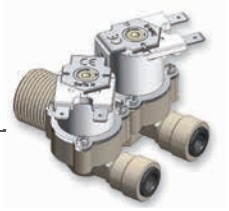
Doppia / Double 90°: 80 pcs
Doppia / Double180°: 80 pcs

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

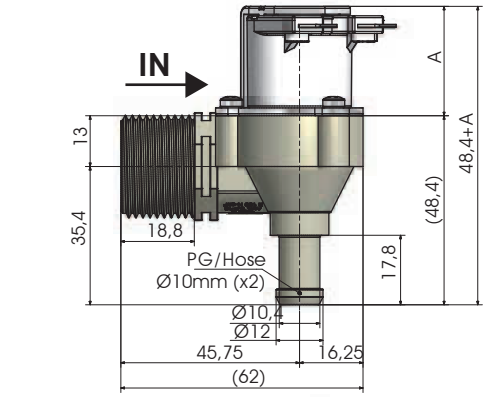


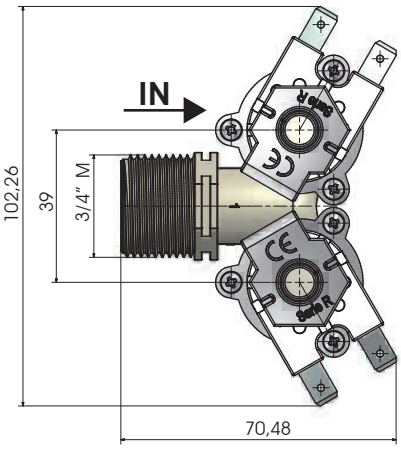
Serie R - Doppie

R Series - Double

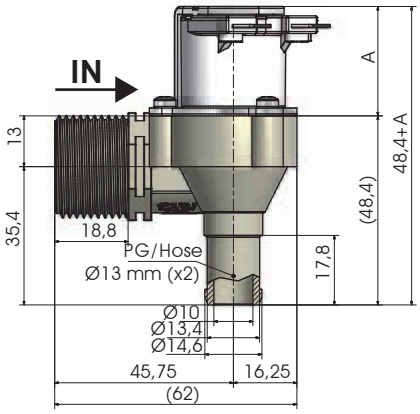


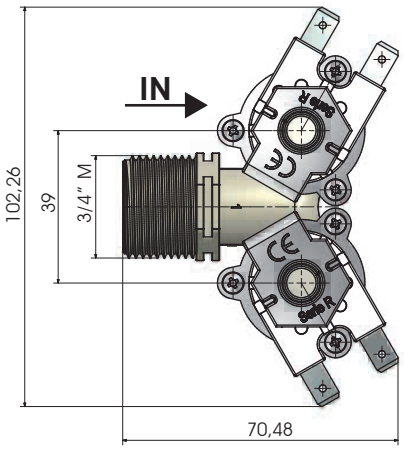
251 — 90°





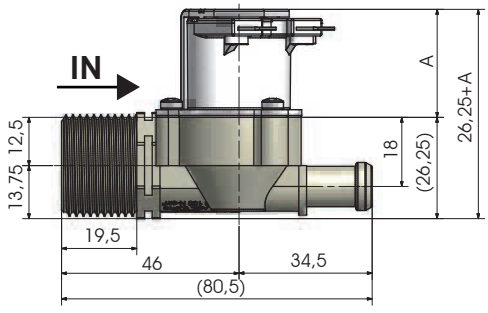
255 — 90°

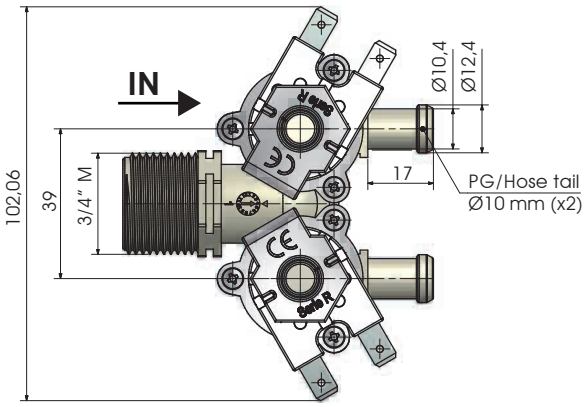




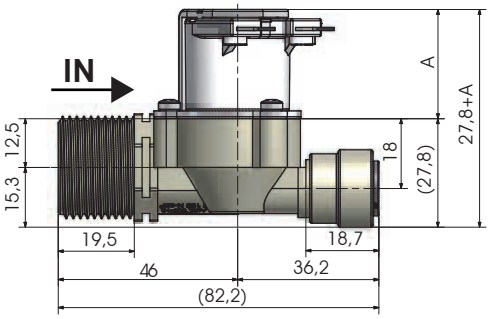
Misure in millimetri - Dimensions in millimeters

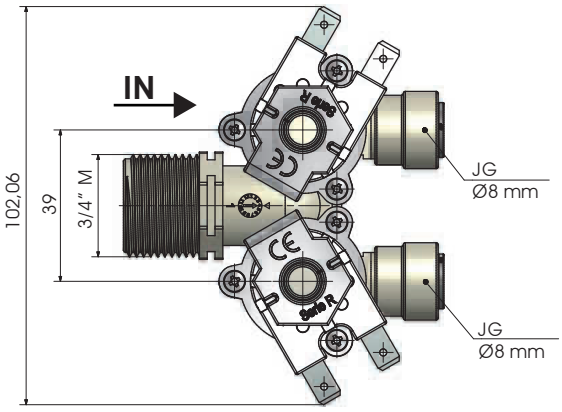
253 — 180°





259 — 180°





Misure in millimetri - Dimensions in millimeters

Serie R - Tripla

R Series - Triple

90°

Modello Model	IN 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	3/4" M	PG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
352	3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓	✓	✓
355	3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓		

Legenda / Key:

PG = Portagomma / Hose tail JG = Attacco rapido / Quick coupling Codolo = Spigot

180°

Modello Model	IN 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	3/4" M	PG 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
354	3/4" M	PG 13 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
358	3/4" M	Codolo 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
359	3/4" M	JG 8 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
360	3/4" M	JG 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓

Legenda / Key:

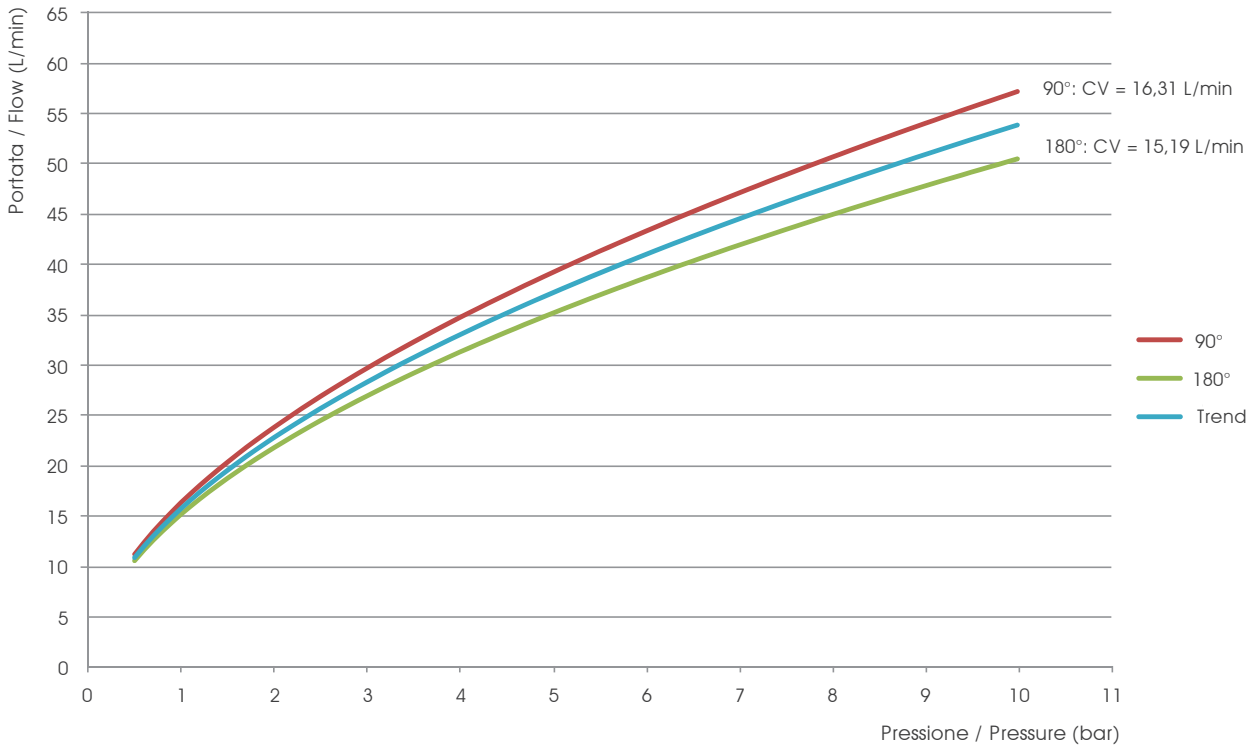
PG = Portagomma / Hose tail JG = Attacco rapido / Quick coupling Codolo = Spigot

M.O.Q.

Tripla / Triple 90°: 40 pcs

Tripla / Triple 180°: 40 pcs

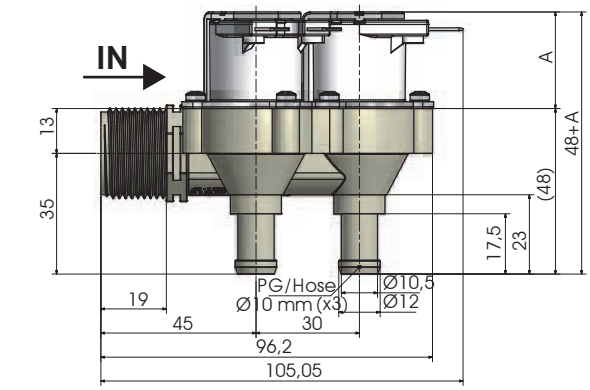
GRAFICO PORTATE SERIE R TRIPLA (Ø10 MM) / FLOW RATES CHART R SERIES TRIPLE (Ø10 MM)

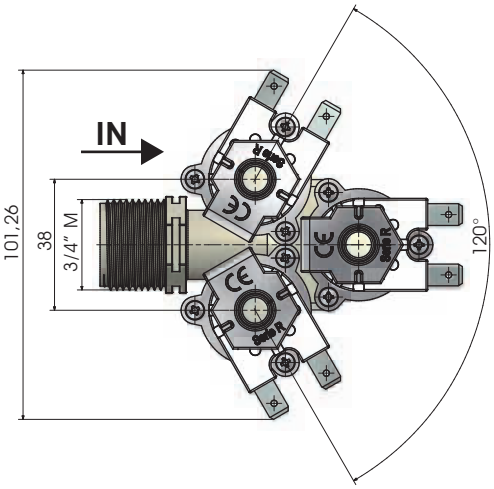


Serie R - Tripla

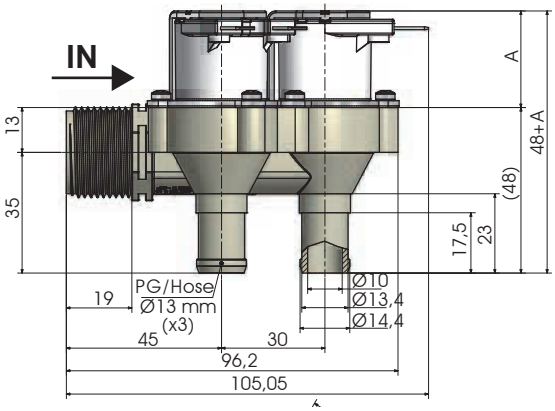
R Series - Triple

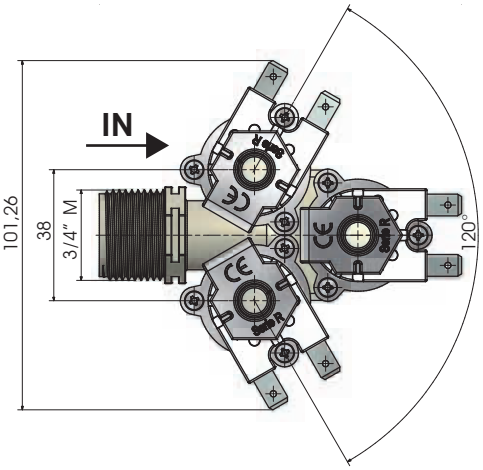
351 — 90°





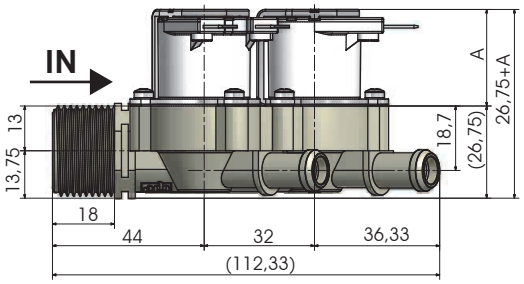
355 — 90°

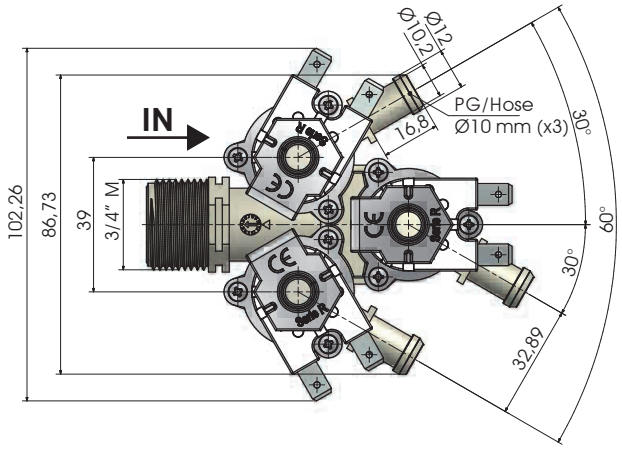




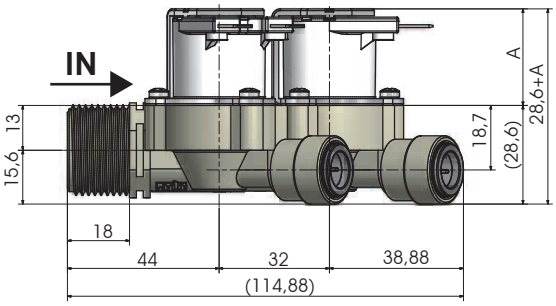
Misure in millimetri - Dimensions in millimeters

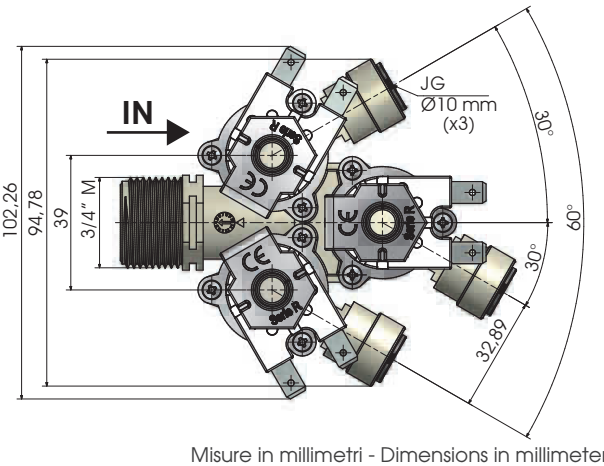
353 — 180°





360 — 180°

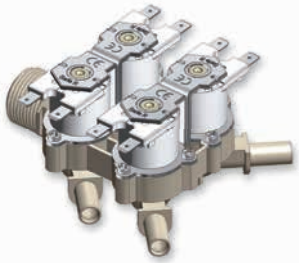




Misure in millimetri - Dimensions in millimeters

Serie R - Quadrupla

R Series - Quadruple



90°

Modello Model	IN 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	3/4" M	PG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
452	3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓	✓	✓
455	3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓		

Legenda / Key:
PG = Portagomma / Hose tail Codolo = Spigot

180°

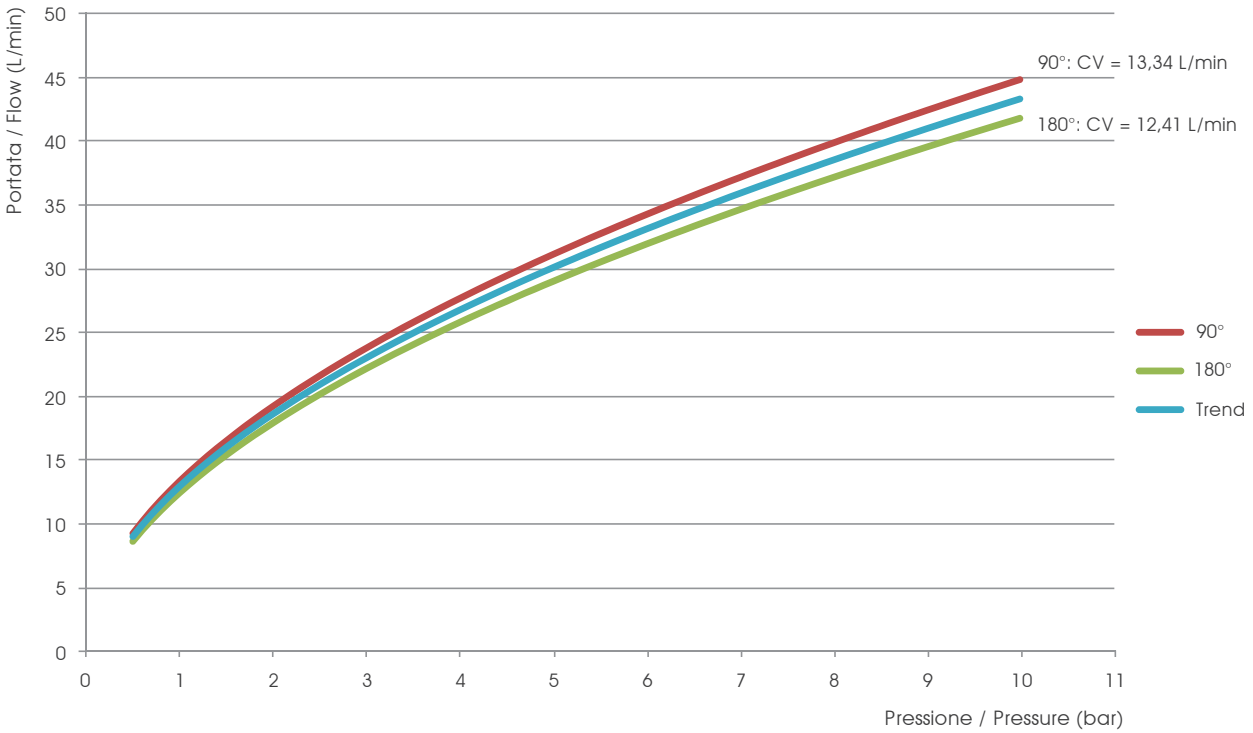
Modello Model	IN 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
453	3/4" M	PG 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
458	3/4" M	Codolo 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓

Legenda / Key:
PG = Portagomma / Hose tail Codolo = Spigot

M.O.Q.

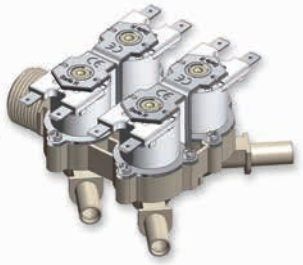
Quadrupla / Quadruple 90°: 40 pcs
Quadrupla / Quadruple 180°: 40 pcs

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

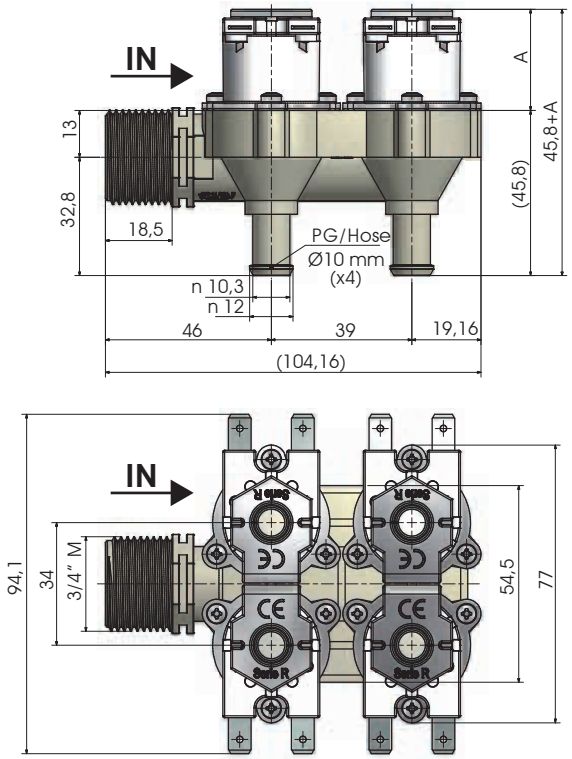


Serie R - Quadrupla

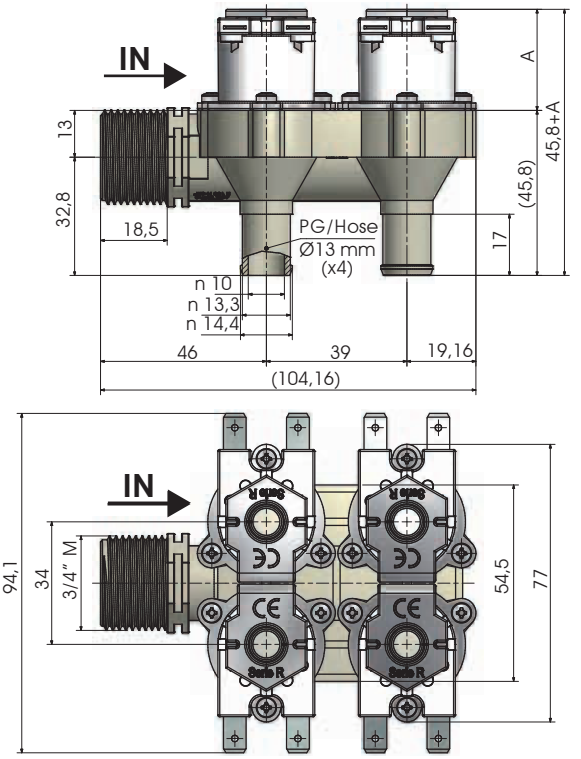
R Series - Quadruple



451 90°

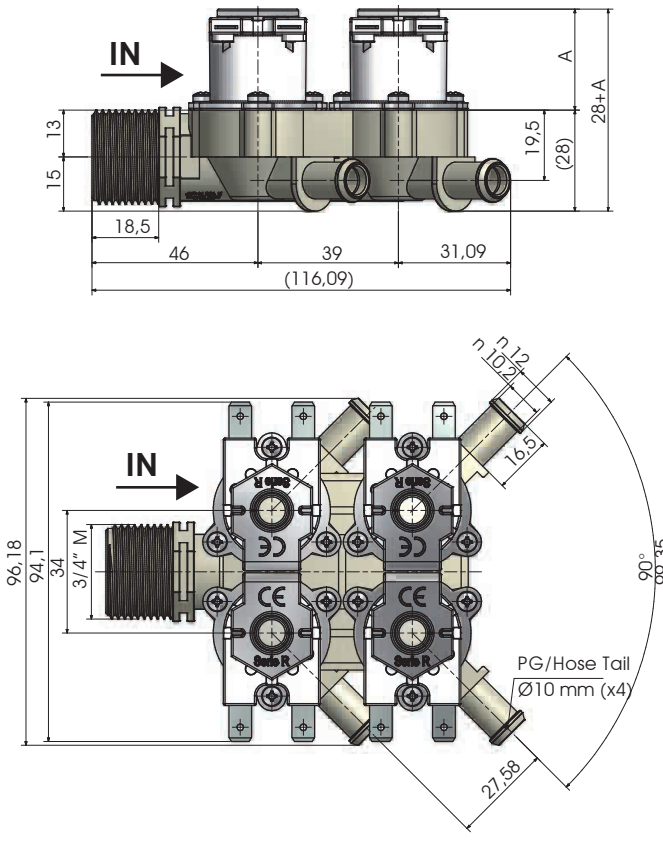


455 90°

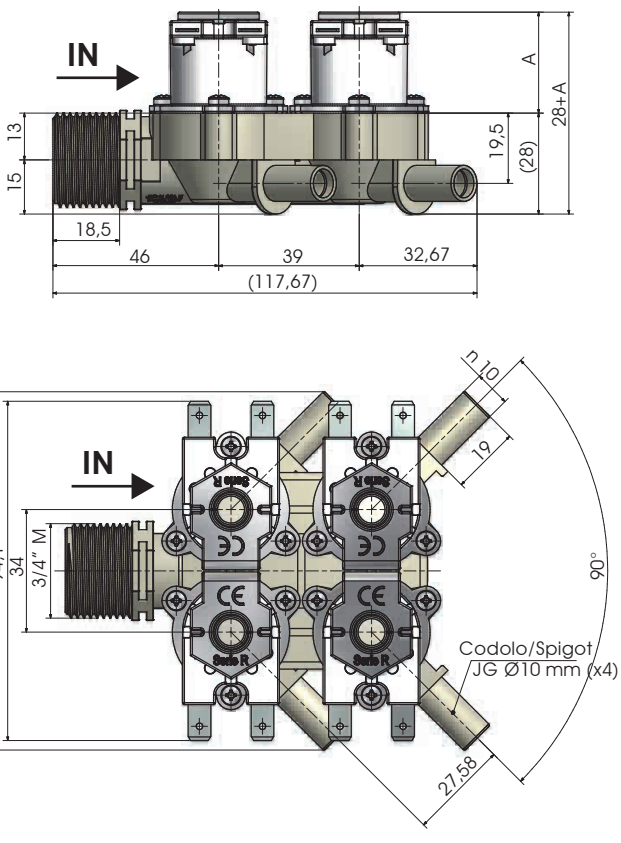


Misure in millimetri - Dimensions in millimeters

453 180°



458 180°



Misure in millimetri - Dimensions in millimeters

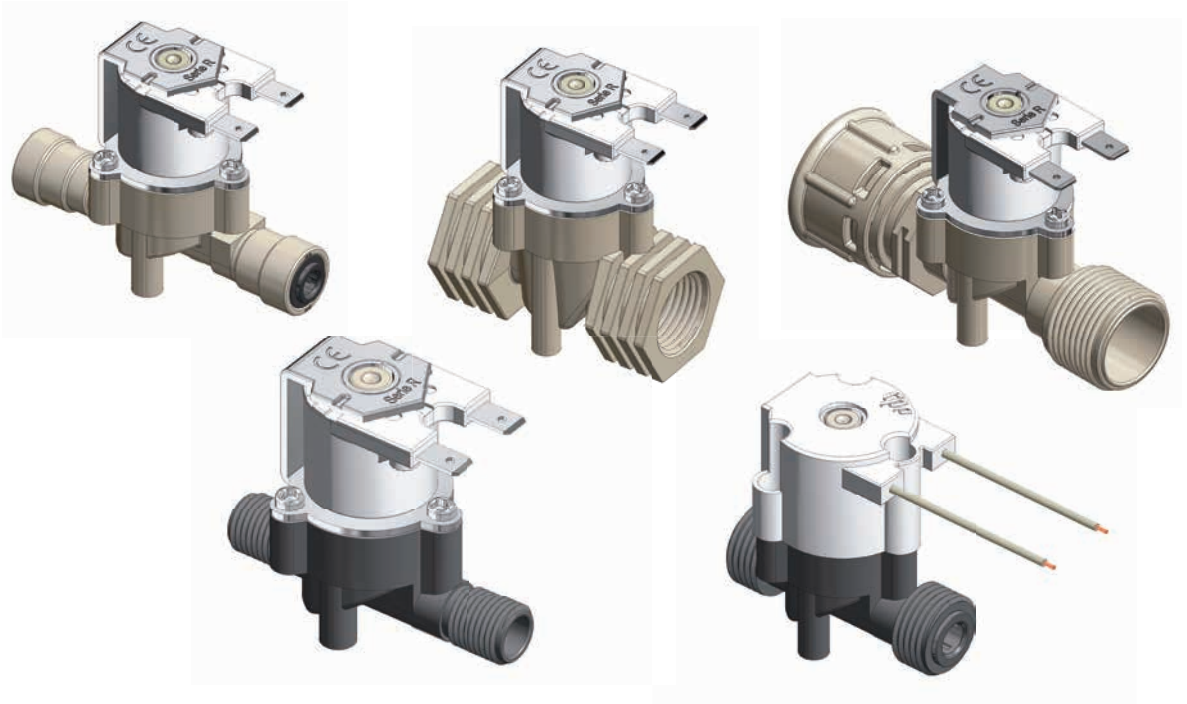
Nulla di grande è mai stato fatto senza passione

Nothing great has ever been done without passion

www.rpesrl.it

Serie R - Mini

R Series - Mini



CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR; EPDM; LSR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR; EPDM; LSR
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,2 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C - Tm 60° C - ED 100% Tm 90° C (3 ON - 5 OFF)
Diametro nominale:	DN 11mm
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale
CV Serie R Mini:	Vedi pagine succesive
CV Serie R Mini G:	27,07 L/min

WORKING SPECIFICATIONS

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 ON - 5 OFF)
Orifice:	ND 11 mm
Control:	NC; NO; Latching
Fluid direction:	Unidirectional
CV R Series Mini:	See next pages
CV R Series Mini G:	27,07 L/min

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm
Cavi bipolari max 5000 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 5000 mm
Bipolar wires max 5000 mm

CERTIFICAZIONI / CERTIFICATIONS

WRAS APPROVED PRODUCT
ATTESTATION DE CONFORMITÉ SANITAIRE ACS
03
c UL us
CE
NSF
DM 174/2001
KTW
W270

Serie R - Mini

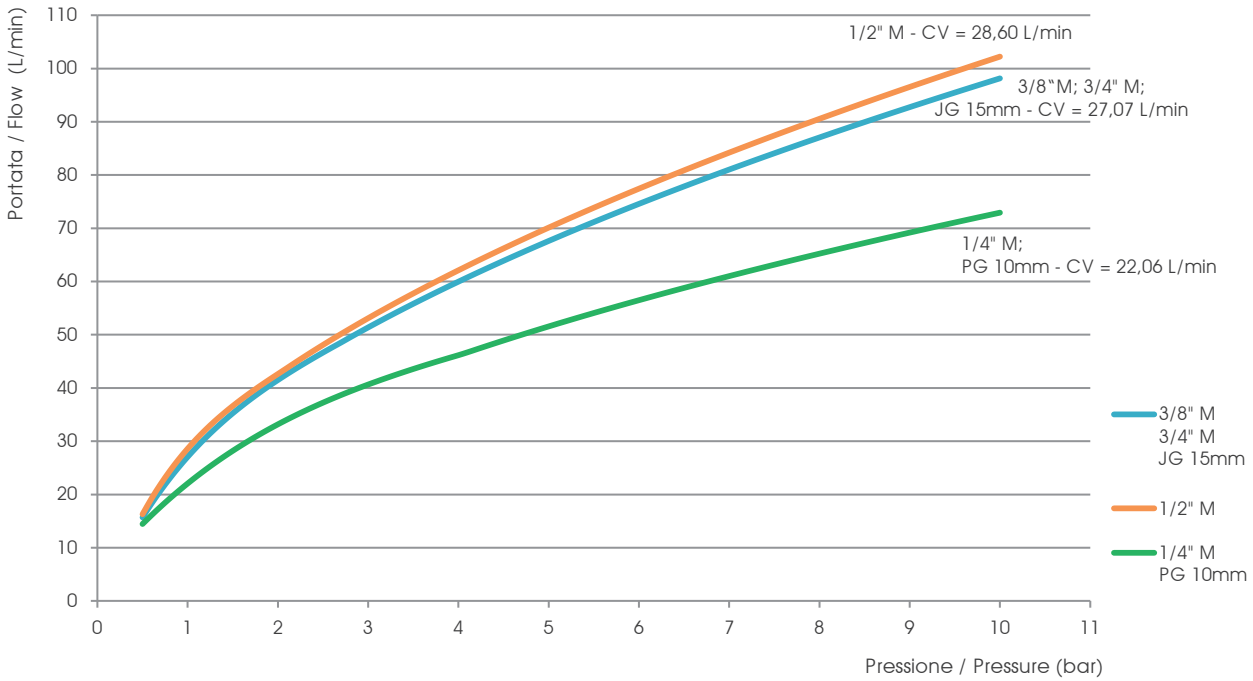
R Series - Mini

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	1/8" F	1/8" F	11 mm	160						
310	1/4" F	1/4" F	11 mm	160						
311	1/4" M	1/4" M	11 mm	160						
410	3/8" F	3/8" F	11 mm	160						
411	3/8" M	3/8" M	11 mm	160						
510	1/2" F	1/2" F	11 mm	160						
511	1/2" M	1/2" M	11 mm	160						
611	3/4" M	3/4" M	11 mm	160	✓					
015	PG 10 mm	PG 10 mm	11 mm	160						
1145	JG 8 mm	JG 8 mm	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	JG 1/4"	JG 1/4"	11 mm	160			✓		✓	✓
119	JG 3/8"	JG 3/8"	11 mm	160			✓		✓	✓
113	JG 6 mm	JG 6 mm	11 mm	160			✓		✓	✓
1146	JG 8 mm	JG 8 mm	11 mm	160			✓		✓	✓
115	JG 10 mm	JG 10 mm	11 mm	160			✓		✓	✓
117	JG 15 mm	JG 15 mm	11 mm	160						

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

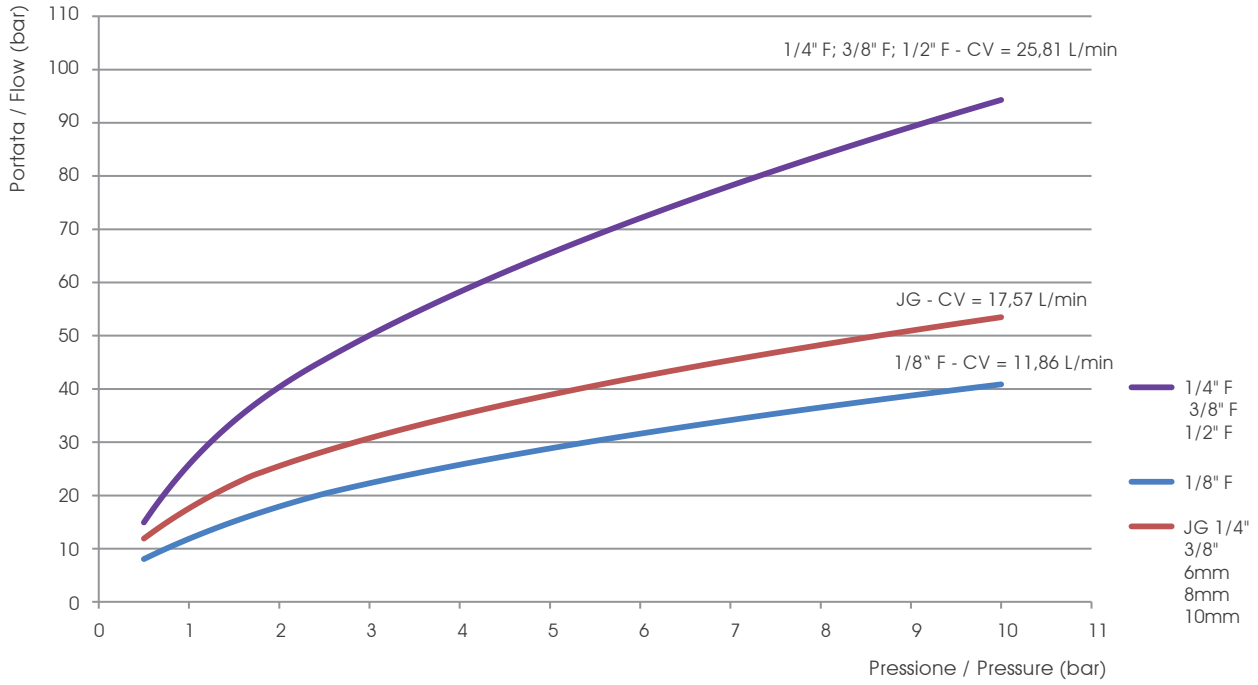
GRAFICO PORTATE SERIE R MINI - FLOW RATES CHART R SERIES MINI



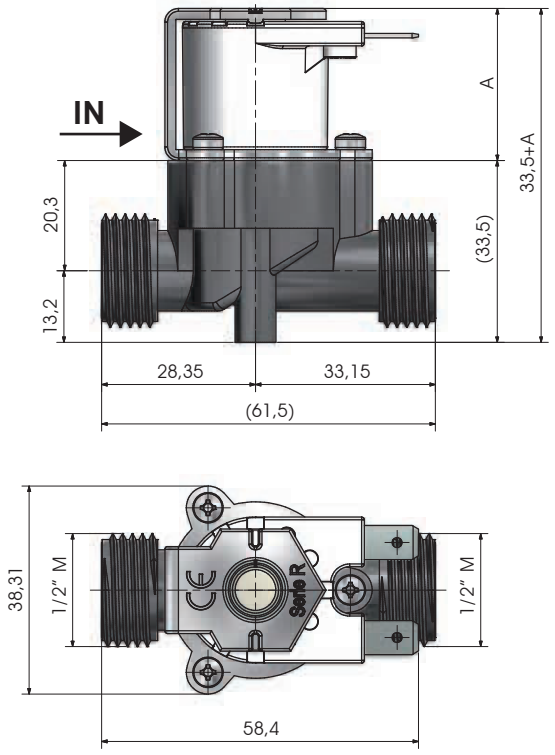
Serie R - Mini

R Series - Mini

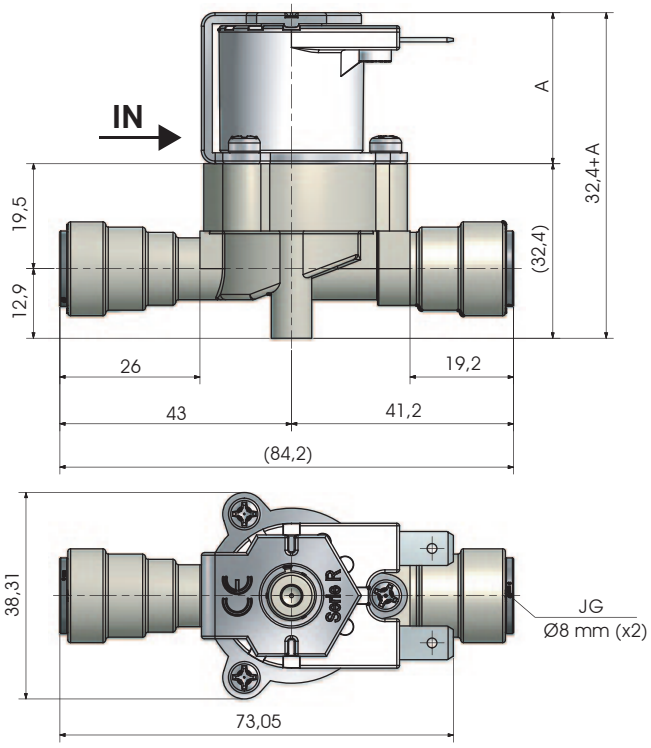
GRAFICO PORTATE SERIE R MINI - FLOW RATES CHART R SERIES MINI



R Mini 511



R Mini 1146



Misure in millimetri - Dimensions in millimeters

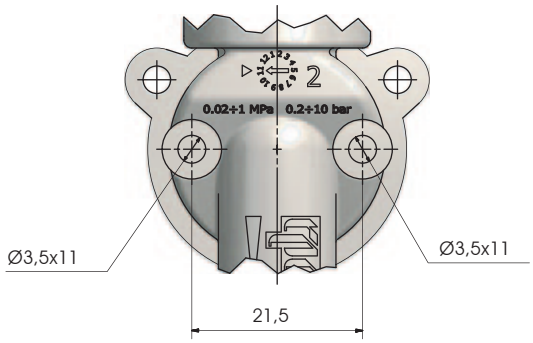
Serie R - Mini G

R Series - Mini G

Modello Model	IN 3/4"	OUT 3/4"	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)
612	3/4" M	3/4" M	11 mm	160	✓	✓	✓	✓		✓
613	3/4" M	3/4" F (con ghiera)	11 mm	160	✓	✓	✓	✓		✓
614	3/4" F (con ghiera)	3/4" M	11 mm	160	✓	✓	✓	✓		✓
615	3/4" F (con ghiera)	3/4" F (con ghiera)	11 mm	160	✓	✓	✓	✓		✓

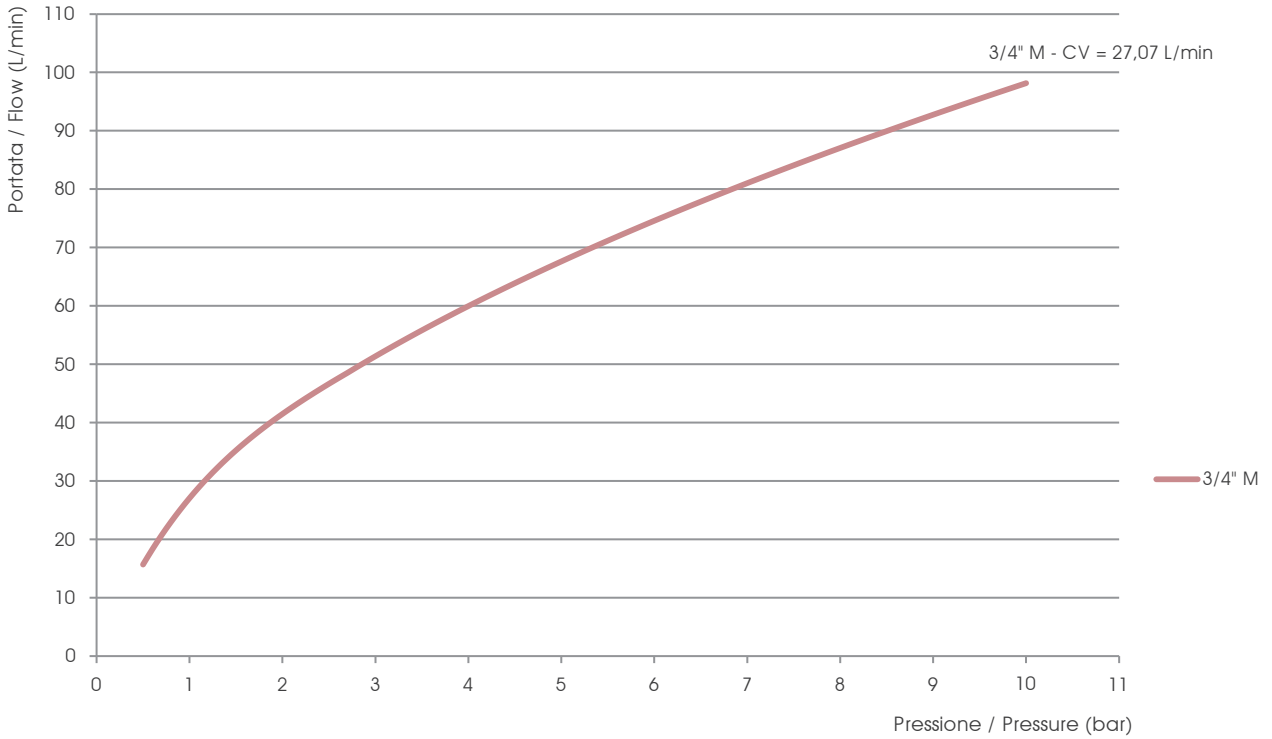
Legenda / Key:
Con ghiera = With ring nut

Dettagli di fissaggio* Fixing details*



Misure in millimetri / Dimensions in millimeters
* Non disponibile sulle versioni con filettatura femmina sulla serie Mini / Not available on versions with female thread on Mini series

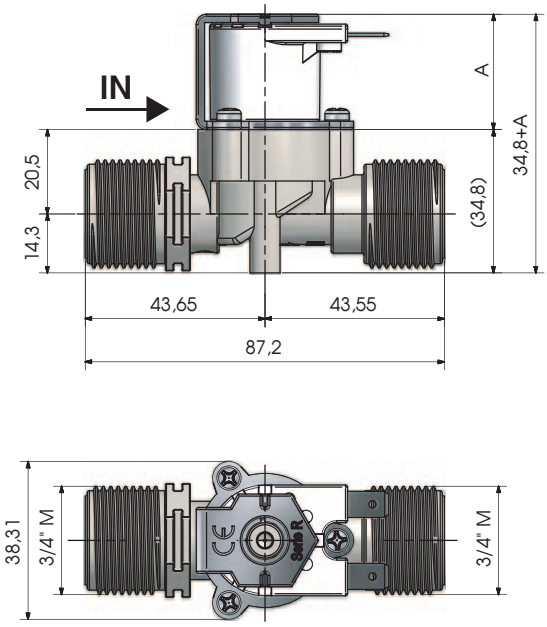
GRAFICO PORTATE SERIE R MINI G / FLOW RATES CHART R SERIES MINI G



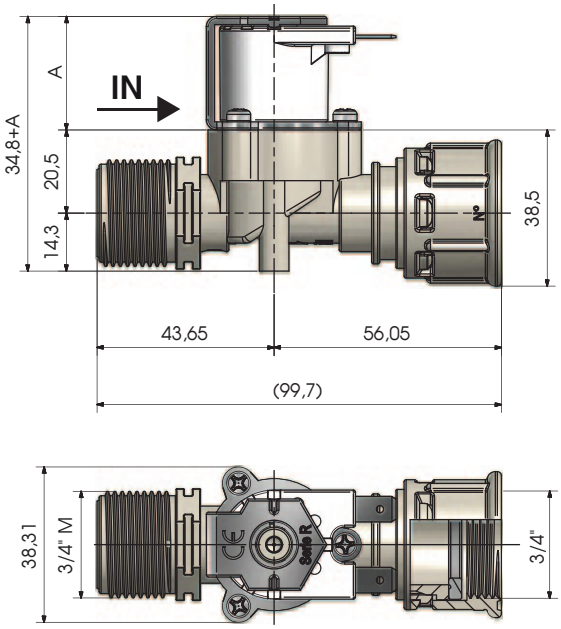
Serie R - Mini G

R Series - Mini G

R Mini G 612

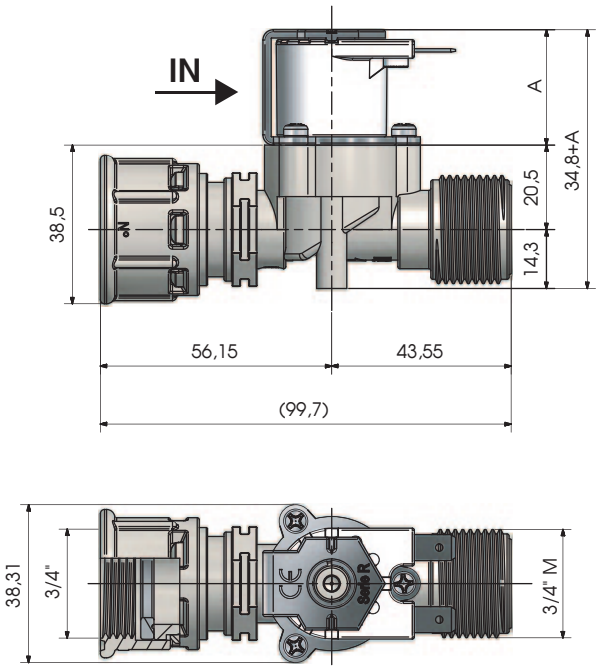


R Mini G 613

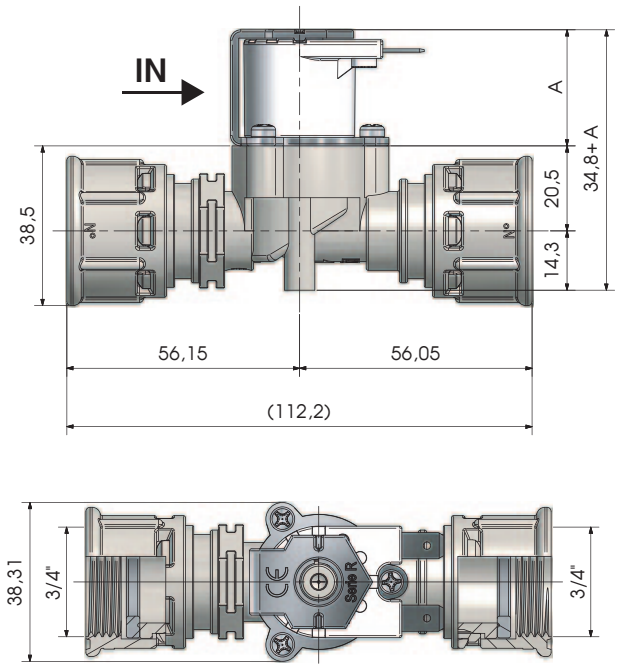


Misure in millimetri - Dimensions in millimeters

R Mini G 614



R Mini G 615



Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

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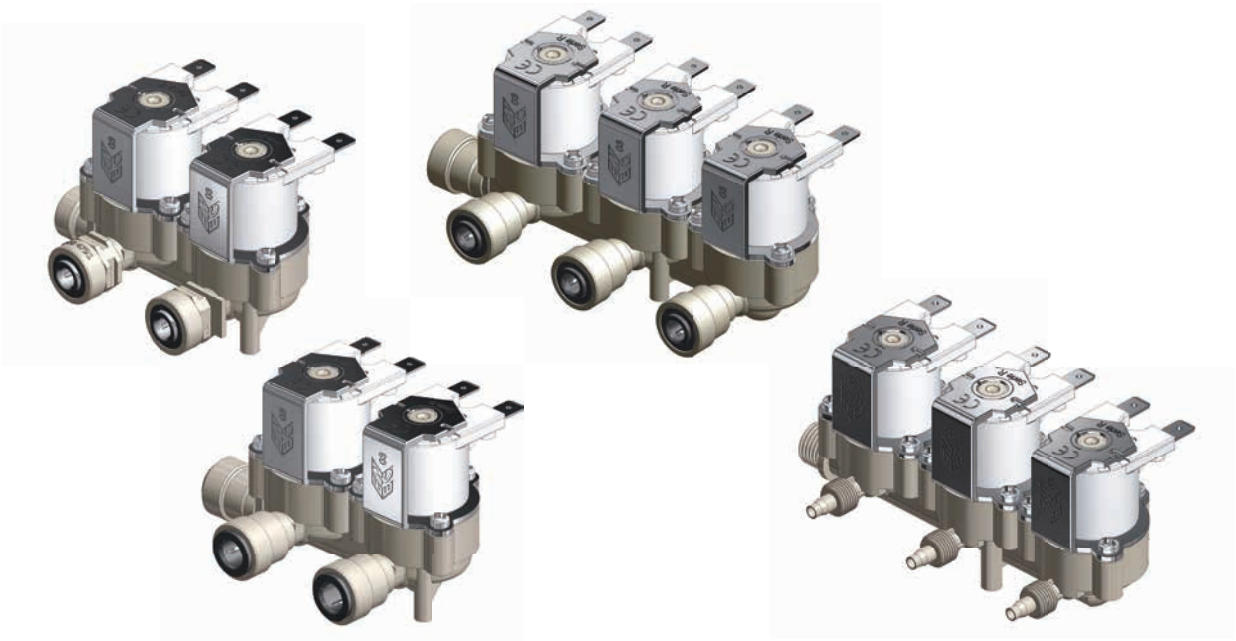
Serie R - Dispenser

R Series - Dispenser



CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR; LSR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR; LSR
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,2 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C - Tm 60° C - ED 100% Tm 90° C (3 ON - 5 OFF)
Diametro nominale:	DN 10 mm
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale
CV:	7,39 L/min

WORKING SPECIFICATIONS

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 ON - 5 OFF)
Orifice:	ND 10 mm
Control:	NC; NO; Latching
Fluid direction:	Unidirectional
CV:	7,39 L/min

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm
Cavi bipolari max 5000 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 5000 mm
Bipolar wires max 5000 mm

CERTIFICAZIONI / CERTIFICATIONS

DM 174/2001

KTW
W270

Serie R - Dispenser

R Series - Dispenser

2 IN 1

Modello Model	IN	OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve	Staffa Bracket	Riduttore Restrictor (OUT)
237 128	JG 1/4"	JG 1/4"	10 mm	40					
237 192	JG 6 mm	JG 6 mm	10 mm	40					
237 193	JG 8 mm	JG 8 mm	10 mm	40					
236 002	M10 x 1	1/4" M	10 mm	40					

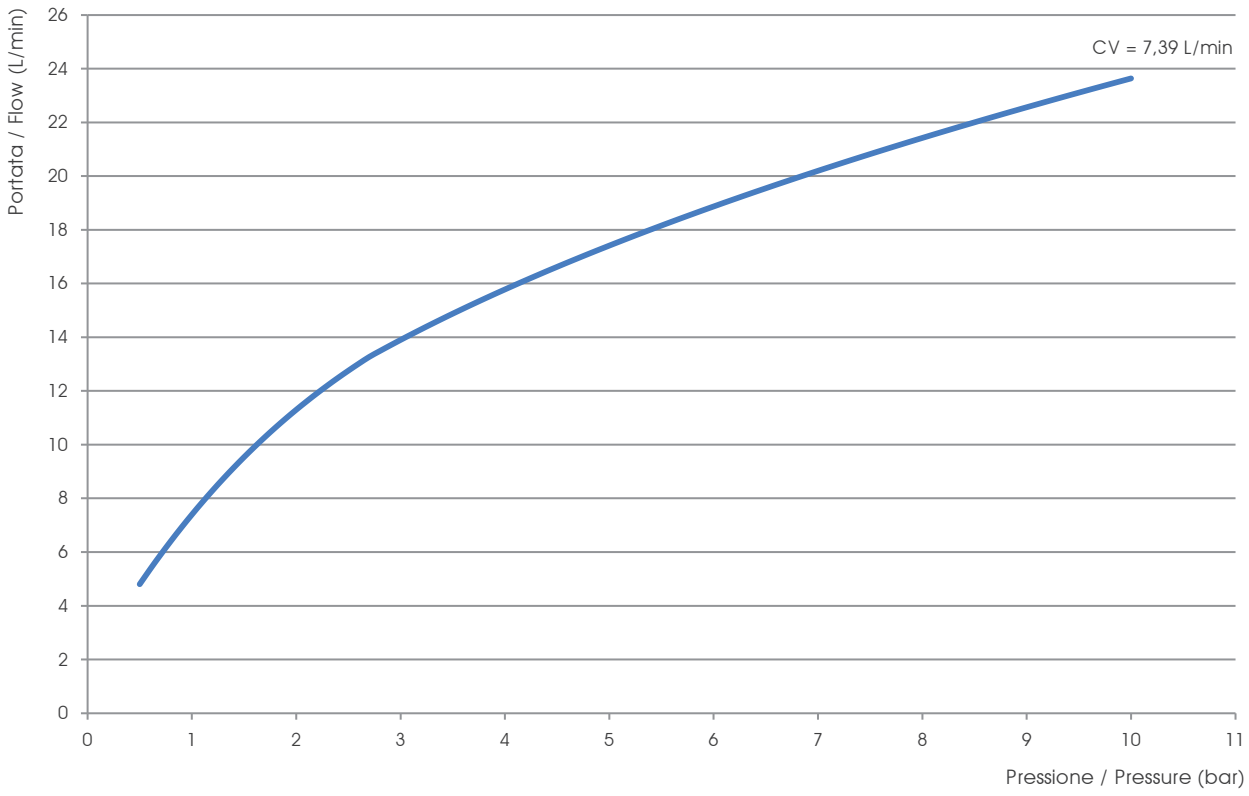
Legenda / Key:
JG = Attacco rapido / Quick coupling

3 IN 1

Modello Model	IN	OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve	Staffa Bracket	Riduttore Restrictor (OUT)
325 128	JG 1/4"	JG 1/4"	10 mm	40					
325 192	JG 6 mm	JG 6 mm	10 mm	40					
325 193	JG 8 mm	JG 8 mm	10 mm	40					
325 125	M10 x 1	1/4" M	10 mm	40					

Legenda / Key:
JG = Attacco rapido / Quick coupling

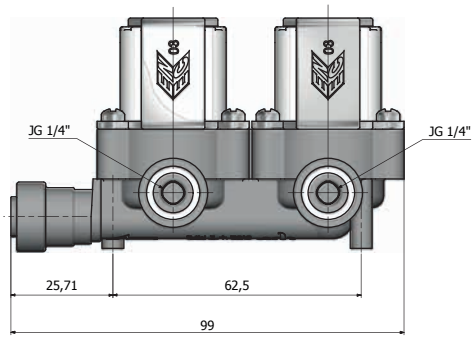
GRAFICO PORTATA SERIE R DISPENSER / FLOW RATE CHART R SERIES DISPENSER

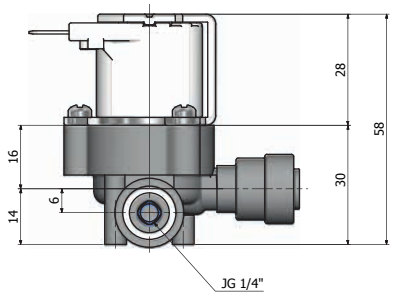


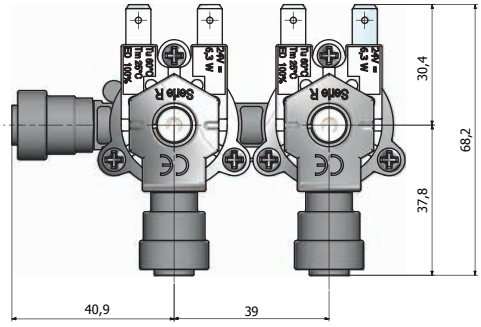
Serie R - Dispenser

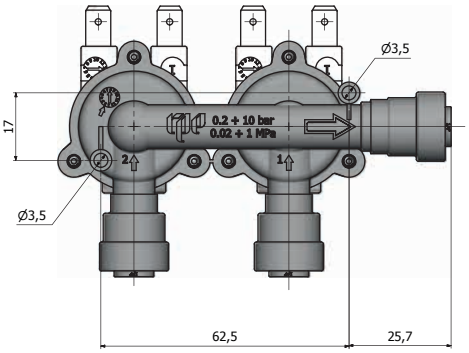
R Series - Dispenser

237 128



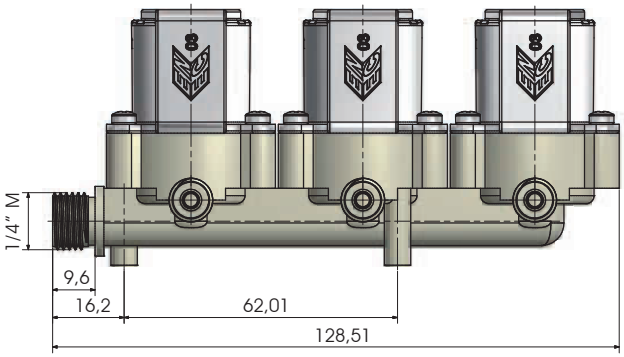


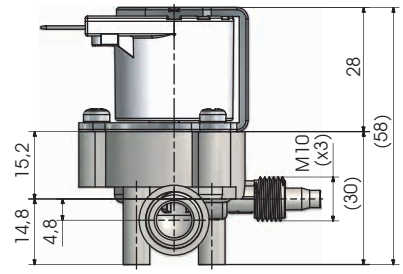


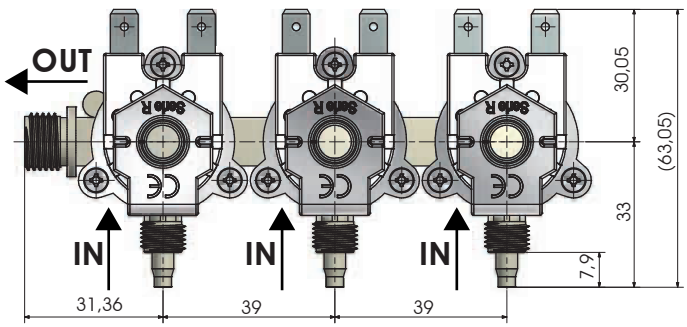


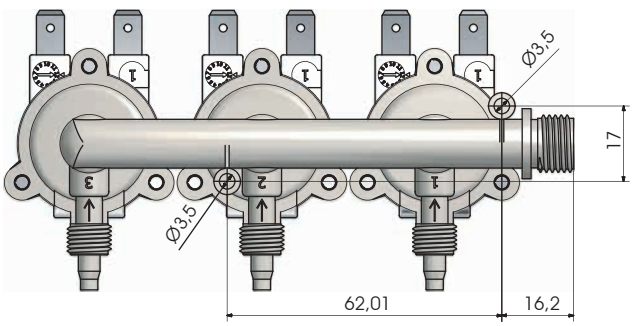
Misure in millimetri - Dimensions in millimeters

325 125









Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

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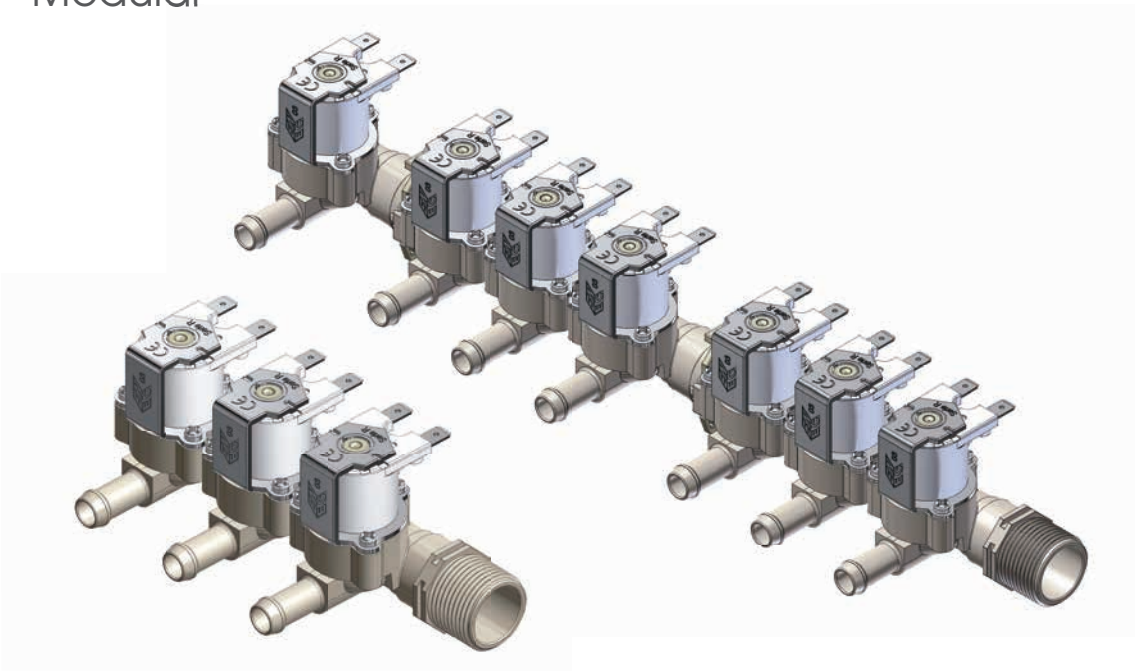
Serie R - Modulare

R Series - Modular



CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR; LSR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR; LSR
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,2 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C - Tm 60° C - ED 100% Tm 90° C (3 ON - 5 OFF)
Diametro nominale:	DN 11mm
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale
CV 1 uscita:	20,74 L/min

WORKING SPECIFICATIONS

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 ON - 5 OFF)
Orifice:	ND 11 mm
Control:	NC; NO; Latching
Fluid direction:	Unidirectional
CV 1 outlet:	20,74 L/min

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm
Cavi bipolari max 5000 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 5000 mm
Bipolar wires max 5000 mm

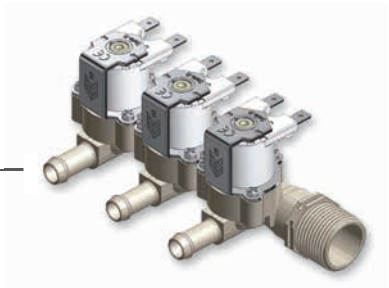
CERTIFICAZIONI / CERTIFICATIONS

KTW
W270

DM 174/2001

Serie R - Modulare

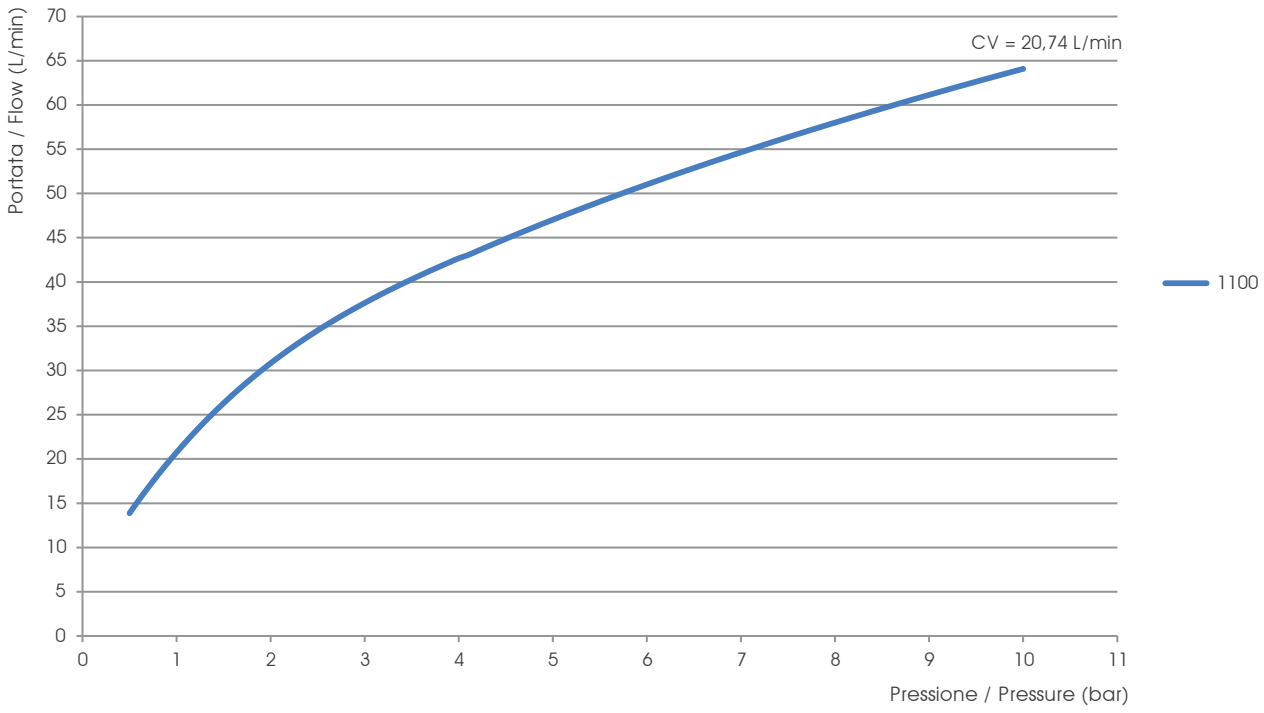
R Series - Modular



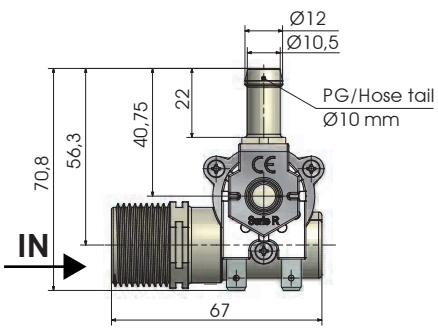
Modello Model	IN 3/4" M	OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
1100	3/4" M	1 PG 10 mm	11 mm	120	✓	✓	✓	✓	✓	✓
1200	3/4" M	2 PG 10 mm	11 mm	80	✓	✓	✓	✓	✓	✓
1300	3/4" M	3 PG 10 mm	11 mm	40	✓	✓	✓	✓	✓	✓
1500	3/4" M	5 PG 10 mm	11 mm	24	✓	✓	✓	✓	✓	✓
1700	3/4" M	7 PG 10 mm	11 mm	24	✓	✓	✓	✓	✓	✓

Legenda / Key: PG = Portagomma / Hose tail

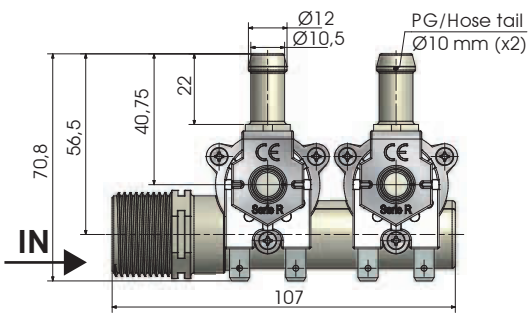
GRAFICO PORTATA SERIE R MODULARE (1 USCITA) / FLOW RATE CHART R SERIES MODULAR (1 OUTLET)



RM 1100



RM 1200

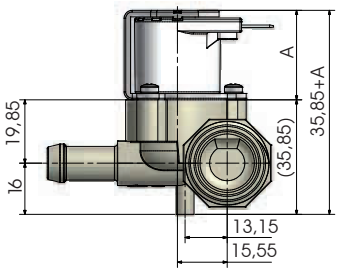


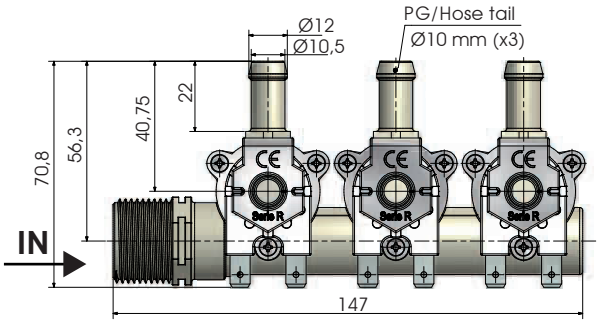
Misure in millimetri - Dimensions in millimeters

Serie R - Modulare

R Series - Modular

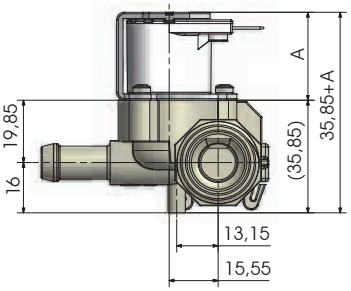
RM 1300

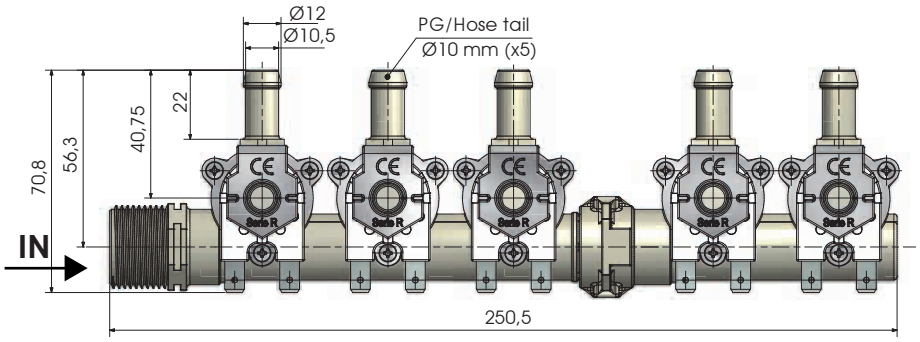




Misure in millimetri - Dimensions in millimeters

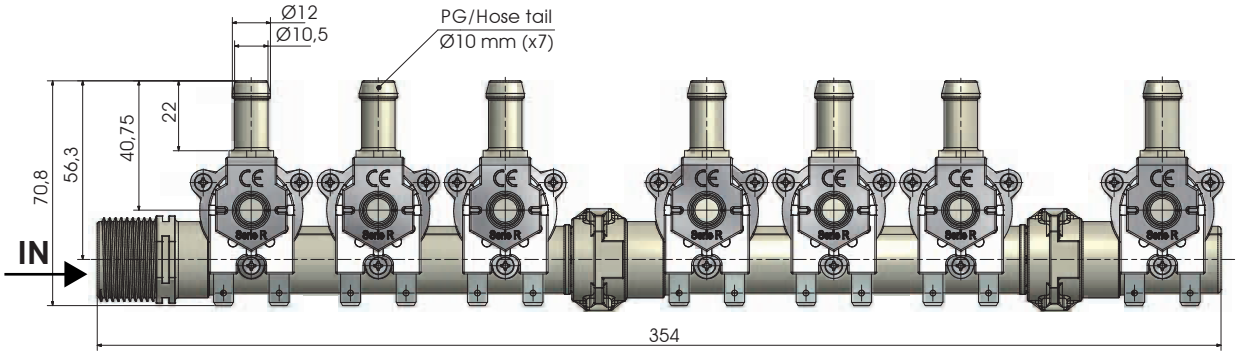
RM 1500





Misure in millimetri - Dimensions in millimeters

RM 1700



Misure in millimetri - Dimensions in millimeters

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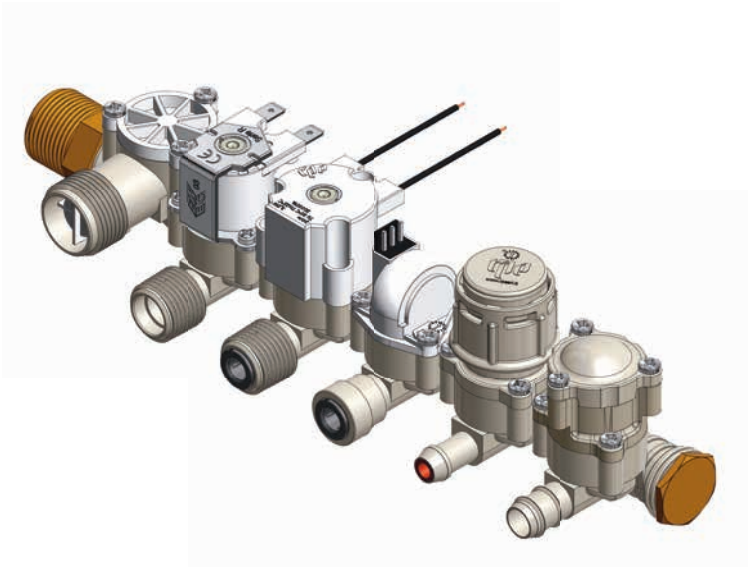
Serie R - Componibile

R Series - Componible



CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR; LSR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Con viti, ispezionabile.

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR; LSR
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,2 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C - Tm 60° C - ED 100% Tm 90° C (3 ON - 5 OFF)
Diametro nominale:	DN 11mm
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale
CV 1 uscita:	18,95 L/min

WORKING SPECIFICATIONS

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 ON - 5 OFF)
Orifice:	ND 11 mm
Control:	NC; NO; Latching
Fluid direction:	Unidirectional
CV 1 outlet:	18,95 L/min

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm
Cavi bipolari max 5000 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 5000 mm
Bipolar wires max 5000 mm

CERTIFICAZIONI / CERTIFICATIONS

WRAS APPROVED PRODUCT
ATTESTATION DE CONFORMITÉ SANITAIRE ACS
03
c UL us
CE
NSF
DM 174/2001
KTW
W270

Serie R - Componibile

R Series - Componible

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)
104	3/4" M	4*	11 mm	18	✓	✓**	✓**		✓**	✓**
105	3/4" M	5*	11 mm	18	✓	✓**	✓**		✓**	✓**
106	3/4" M	6*	11 mm	12	✓	✓**	✓**		✓**	✓**
107	3/4" M	7*	11 mm	12	✓	✓**	✓**		✓**	✓**

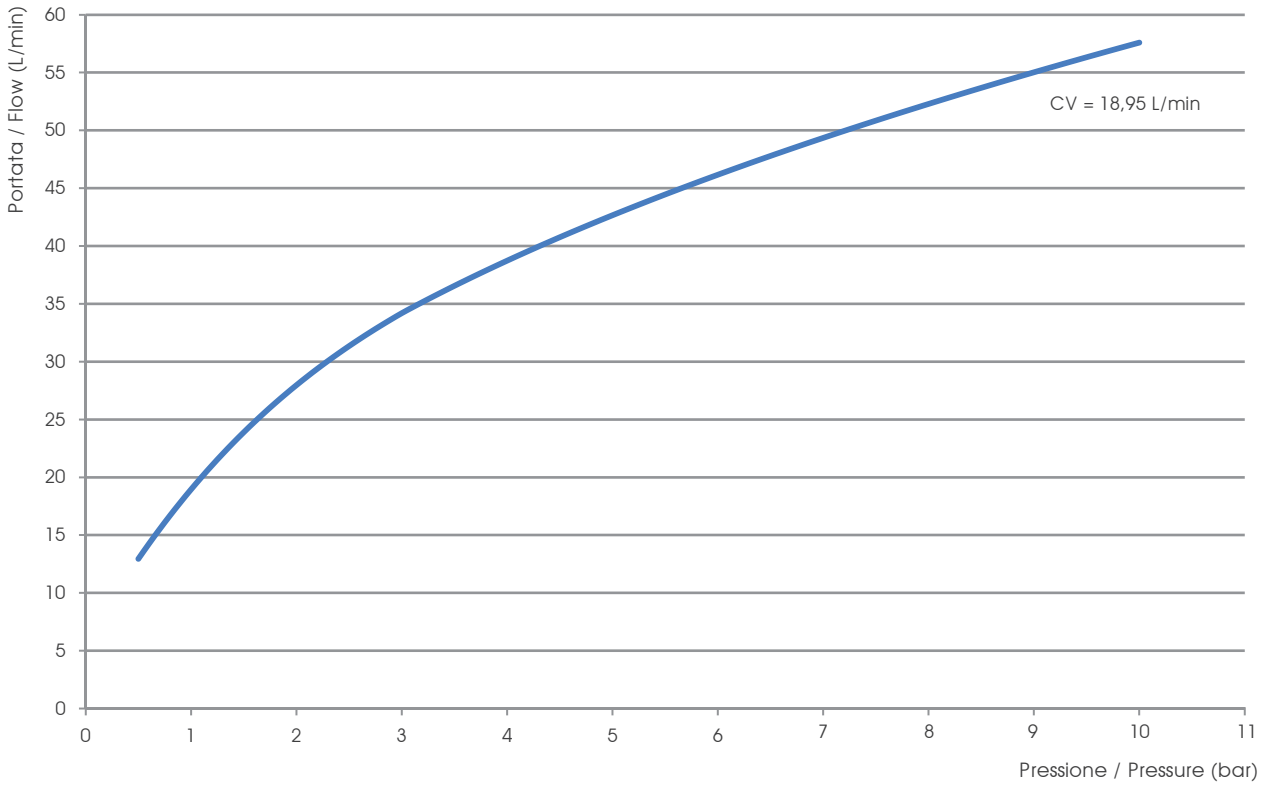
* Disponibili tutte le connessioni RPE (1/2" M; PG 10 mm; PG 16 mm; JG 10 mm; Baionetta)

* Available with all RPE connections (1/2" M; PG 10 mm; PG 16 mm; JG 10 mm; Bayonet)

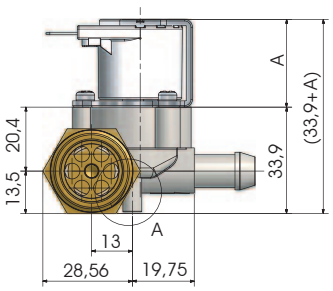
** In base alla connessione idraulica scelta / ** According to the hydraulic connection chosen

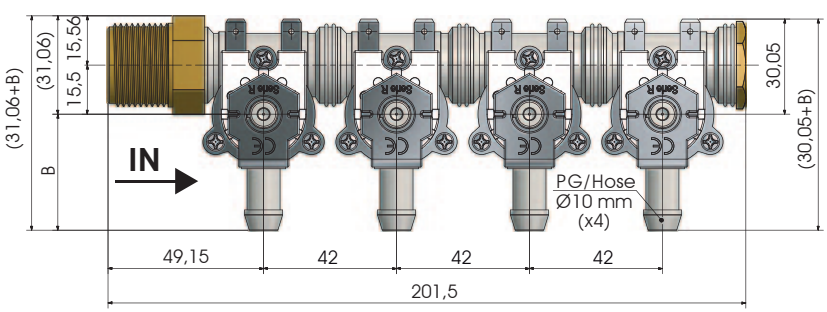
Legenda / Key: PG = Portagomma / Hose tail JG= Attacco rapido / Quick coupling

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



RC 104



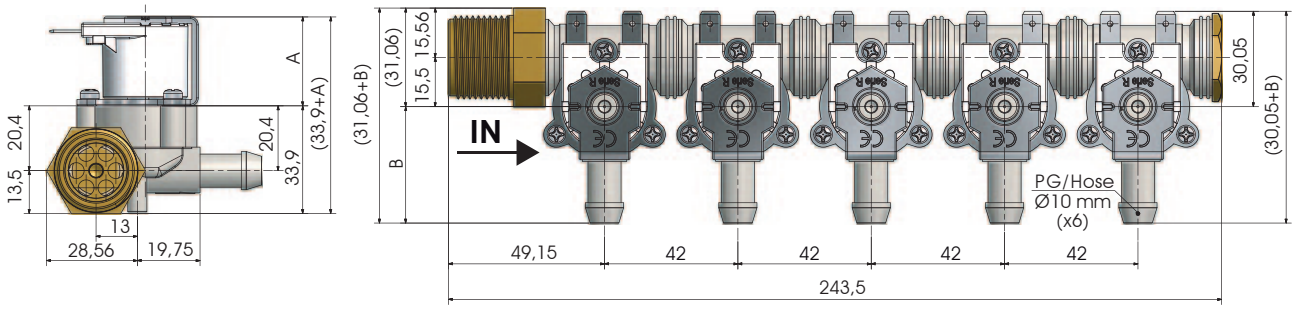


Misure in millimetri - Dimensions in millimeters

Serie R - Componibile

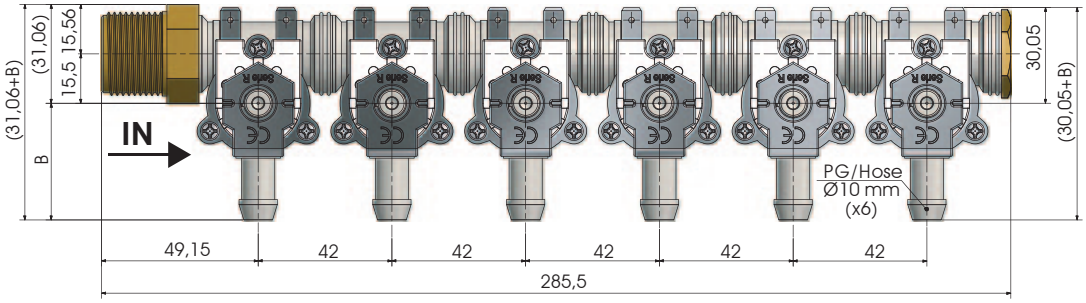
R Series - Componible

RC 105



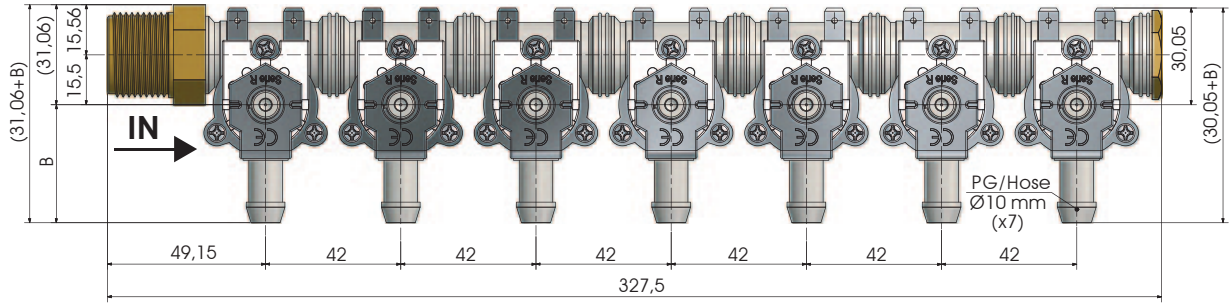
Misure in millimetri - Dimensions in millimeters

RC 106



Misure in millimetri - Dimensions in millimeters

RC 107



Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

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Serie R - Contalitri

R Series - Flow meter

CARATTERISTICHE FISICHE

Montabile su:	Tutta la Serie R
Corpo calotta:	POM
Corpo valvola:	PA 66 - 30% FV
Guarnizione:	NBR; Silicone
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Can be fitted on:	All the R Series
Flow meter body:	POM
Valve body:	PA 66 - 30% GF
Gasket:	NBR; Silicone
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0 - 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C
Flow direction:	Unidirectional

CONNESSIONI ELETTRICHE

Connettore Hall:	JST 3 poli
Connettore Reed:	JST 2 poli
Cavo Hall:	1050; 2800 mm
Cavo Reed:	1050; 2800 mm

ELECTRICAL CONNECTIONS

Hall connector:	JST 3 pin
Reed connector:	JST 2 pin
Hall cable:	1050; 2800 mm
Reed cable:	1050; 2800 mm

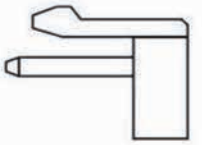
CERTIFICAZIONI / CERTIFICATIONS

KTW
W270

DM 174/2001

Serie R - Contalitri

R Series - Flow meter



CONNESSIONI ELETTRICHE

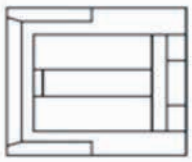
Sensore HALL

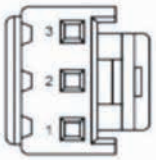
Tipo di uscita:	Collettore aperto NPN
Tensione:	5 - 28 Vcc
Corrente:	Massima 10 mA
Connessione:	Connettore tripolare maschio (nero)
Tipo connettore:	JST B3P-VH-BK (3 poli/p. 3,96) pin 1 = uscita pin 2 = negativo (-) pin 3 = positivo (+)

ELECTRICAL CONNECTIONS

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 (+)



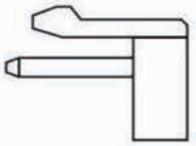


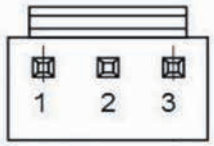
Sensore HALL

Connessione:	Cavo con connettore tripolare femmina (rosso)
Lunghezza cavo:	0,31m / 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:	0,31m / 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

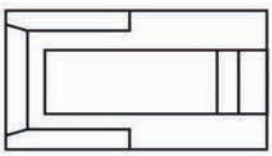
Sensore REED

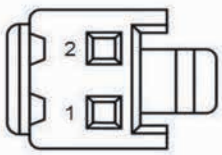
Tipo di uscita:	Contatto NA
Tensione:	5 - 28 Vcc
Corrente:	Massima 500 mA
Connessione:	Connettore tripolare maschio (bianco)
Tipo connettore:	JST B3P-VH (3poli/p.3,96) pin 1 = contatto pin 2 = libero (nc) pin 3 = contatto

ELECTRICAL CONNECTIONS

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:	0,195m / 1m / 2,8m
Tipo connettore:	JST VHR-2N (2 poli/p. 3,96) pin 1 = contatto (cavo marrone) pin 2 = contatto (cavo bianco)

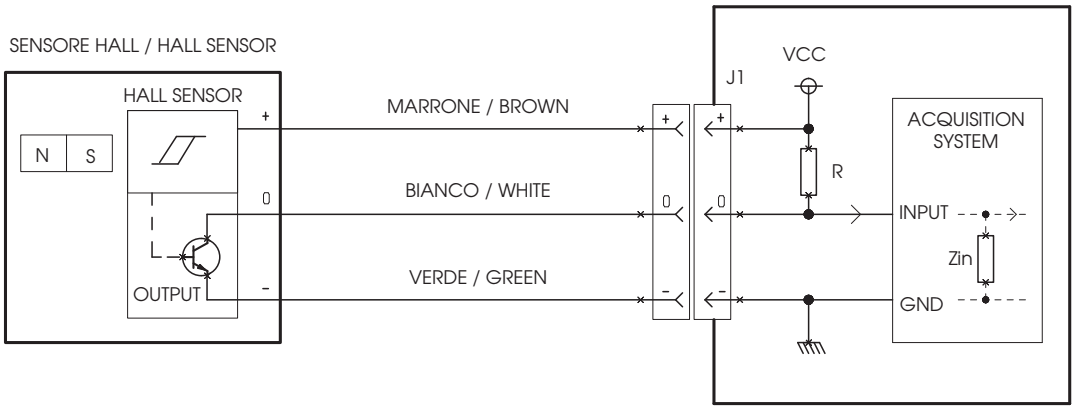
REED sensor

Connection:	Cable with bipolar female connector (white)
Cable length:	0,195m / 1m / 2,8m
Connector type:	JST VHR-2N (2 pin/p. 3,96) pin 1 = contact (brown wire) pin 2 = contact (white wire)

Serie R - Contalitri

R Series - Flow meter

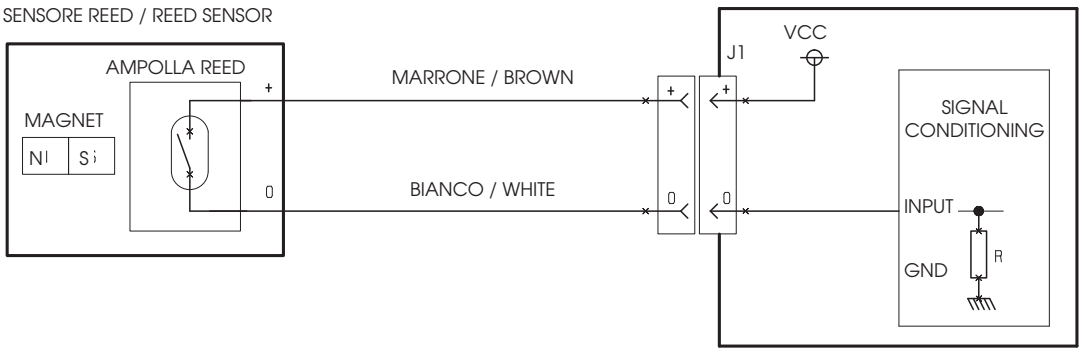
Sensore HALL — HALL Sensor



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

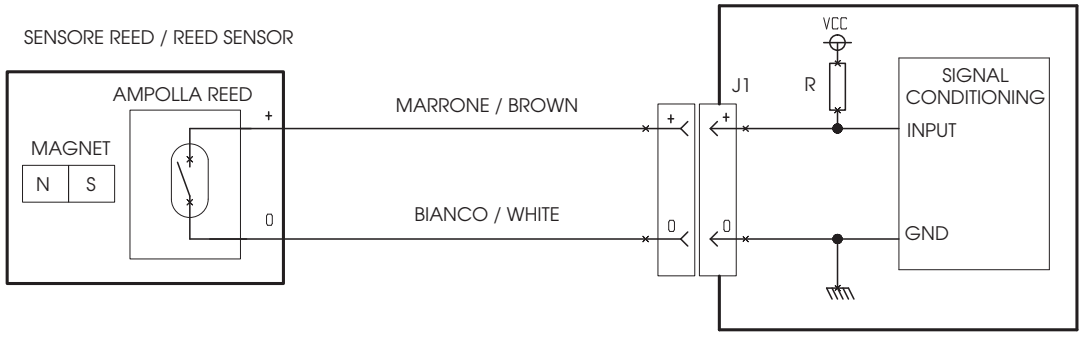
Alimentazione VCC:	5 - 28 VCC
Corrente di carico:	0,05 mA @ 3 mA (tipico)
Resistenza di carico: R =	4,7 Kohm / 0,25 W (tipico A 5 VCC)
Resistenza di carico: R =	10 Kohm / 0,25 W (tipico A 28 VCC)
Resistenza di carico: R =	100 Kohm / 0,25 W (Max)

Sensore REED — REED Sensor



Tipo di uscita: Switch libero da tensione
Corrente di uscita: Max 10 mA
Outlet type: Free switch by voltage
Outlet current: Max 10 mA

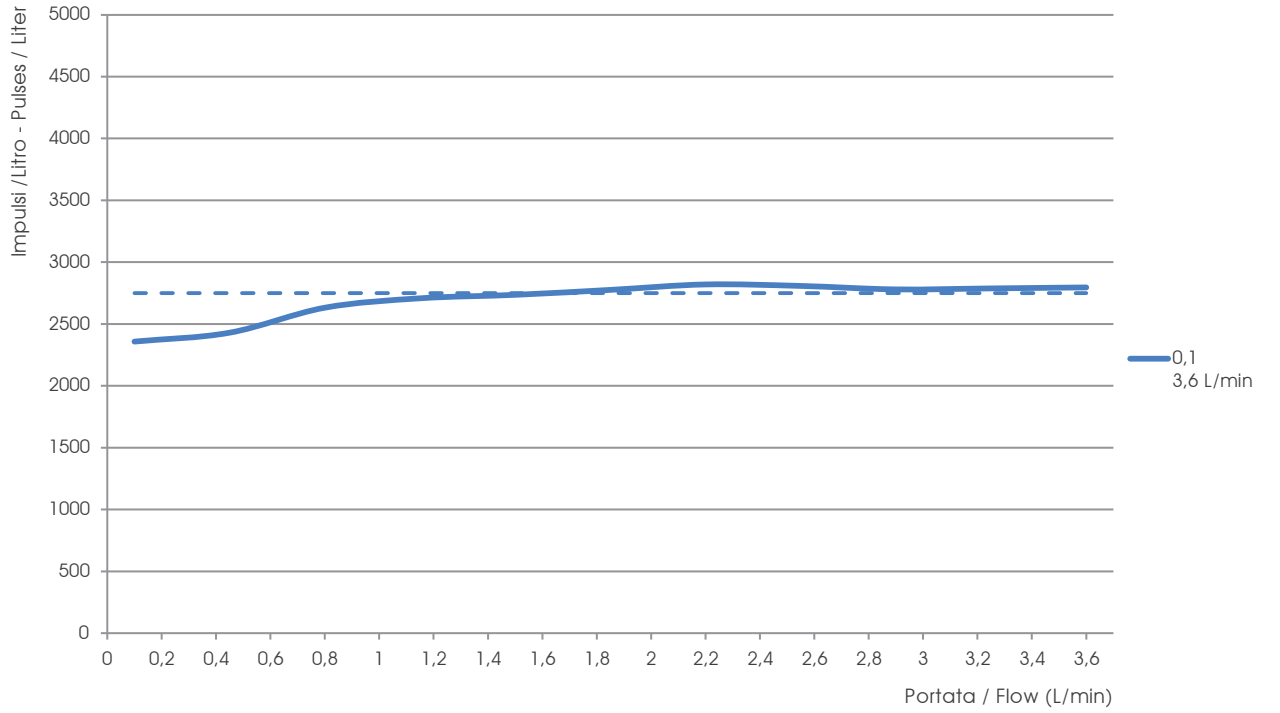
Alimentazione VCC:	5 - 28 VCC
Corrente di carico:	0,05 mA @ 3 mA (tipico)
Resistenza di carico: R =	4,7 Kohm / 0,25 W (tipico A 5 VCC)
Resistenza di carico: R =	10 Kohm / 0,25 W (tipico A 28 VCC)
Resistenza di carico: R =	100 Kohm / 0,25 W (Max)



Serie R - Contalitri

R Series - Flow meter

GRAFICO PORTATA 0,1 - 3,6 L/MIN / FLOW RATE CHART 0,1 - 3,6 L/MIN



PERFORMANCE

Impulsi / litro nominali: 2750
Tolleranza: ± 15 %
N° magneti: 2
Senza ByPass

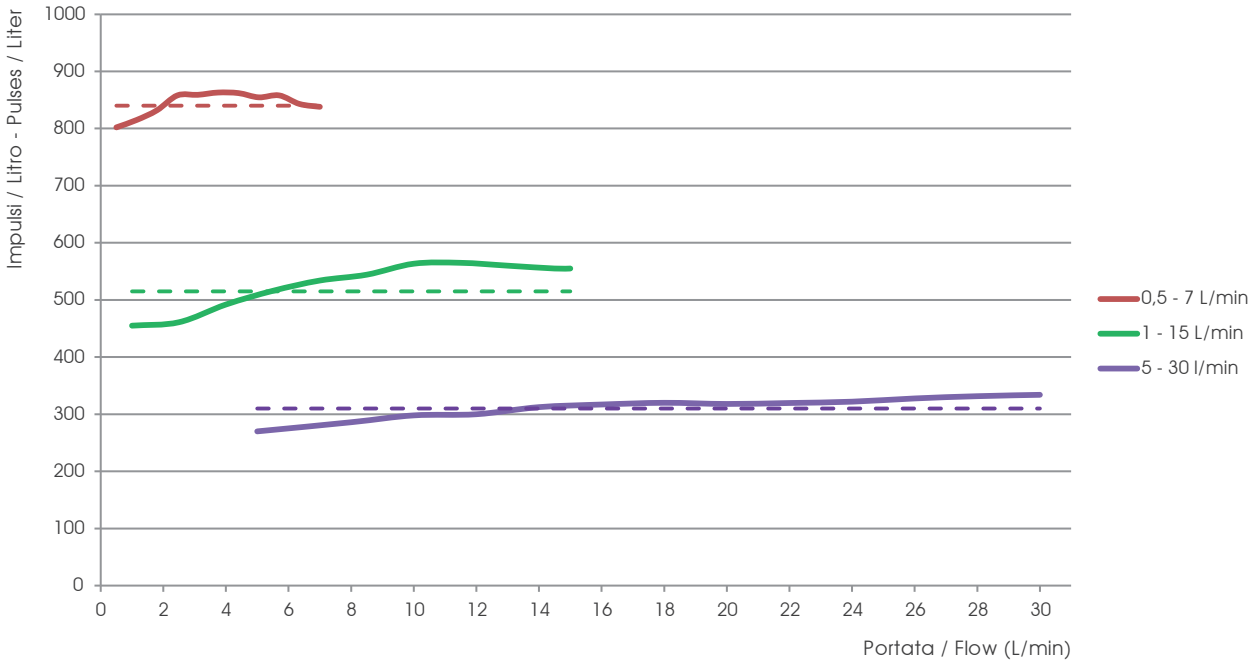
PERFORMANCE

Nominal pulse / liter: 2750
Tolerance: ± 15 %
Magnet No.: 2
No ByPass

Serie R - Contalitri

R Series - Flow meter

GRAFICO PORTATE / FLOW RATES CHART



PERFORMANCE **0,5 - 7 L/min**

Impulsi / litro nominali: 840
Tolleranza: ± 20 %
N° magneti: 1
Senza ByPass

PERFORMANCE **0,5 - 7 L/min**

Nominal pulse / liter: 840
Tolerance: ± 20 %
Magnet No.: 1
No ByPass

PERFORMANCE **1 - 15 L/min**

Impulsi / litro nominali: 515
Tolleranza: ± 20 %
N° magneti: 2
Con ByPass

PERFORMANCE **1 - 15 L/min**

Nominal pulse / liter: 515
Tolerance: ± 20 %
Magnet No.: 2
With ByPass

PERFORMANCE **5 - 30 L/min**

Impulsi / litro nominali: 310
Tolleranza: ± 20 %
N° magneti: 2
Con ByPass

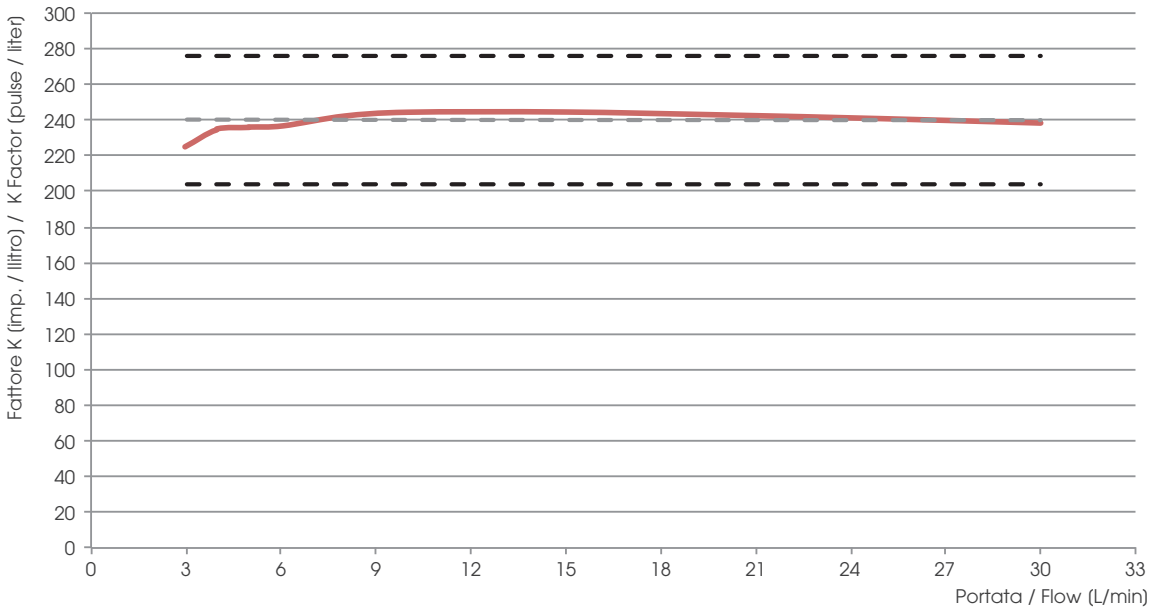
PERFORMANCE **5 - 30 L/min**

Nominal pulse / liter: 310
Tolerance: ± 20 %
Magnet No.: 2
With ByPass

Serie R - Contalitri

R Series - Flow meter

GRAFICO PORTATA 3-30 L/MIN HALL — HALL FLOW RATE CHART 3-30 L/MIN



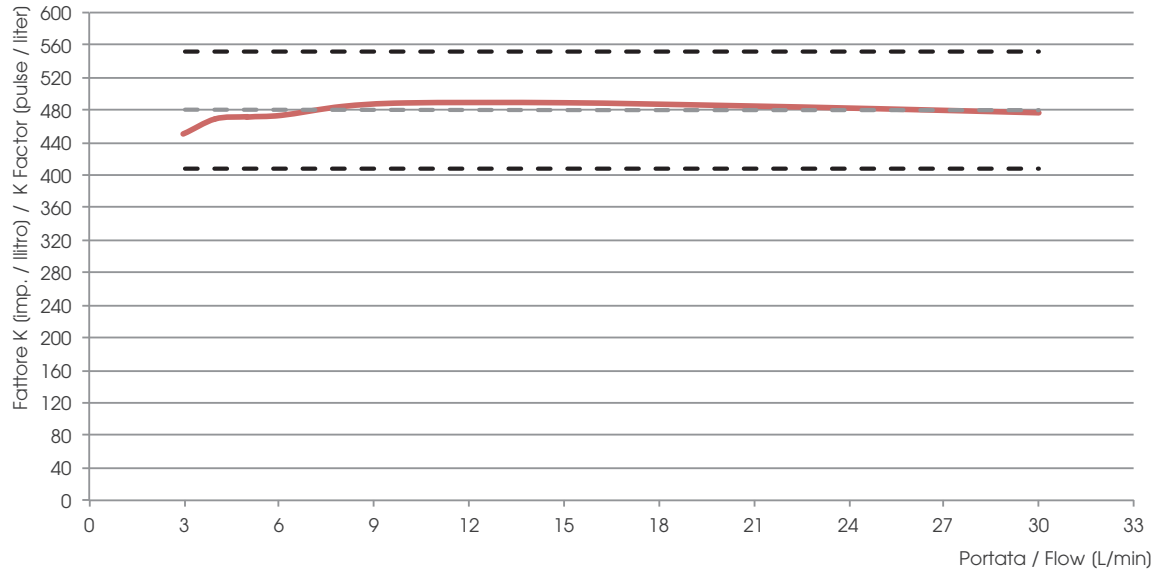
PERFORMANCE

Impulsi / litro nominali: 240
Tolleranza: ± 15 %
N° magneti: 2
Senza ByPass

PERFORMANCE

Nominal pulse / liter: 240
Tolerance: ± 15 %
Magnet No.: 2
No ByPass

GRAFICO PORTATA 3-30 L/MIN REED — REED FLOW RATE CHART 3-30 L/MIN



PERFORMANCE

Impulsi / litro nominali: 480
Tolleranza: ± 15 %
N° magneti: 2
Senza ByPass

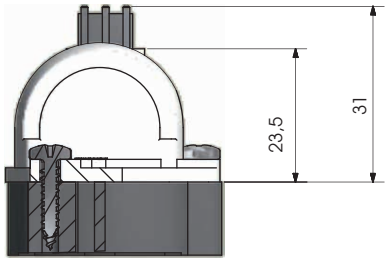
PERFORMANCE

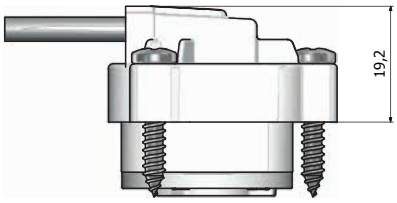
Nominal pulse / liter: 480
Tolerance: ± 15 %
Magnet No.: 2
No ByPass

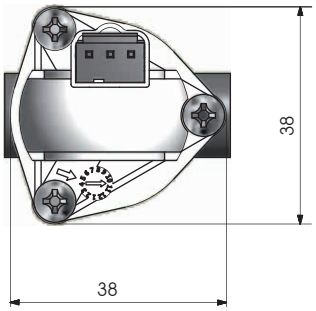
Serie R - Contalitri

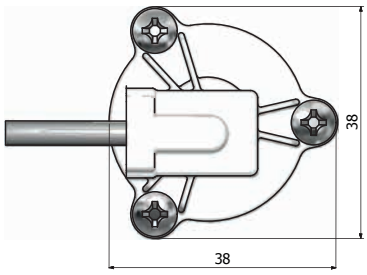
R Series - Flow meter

Contalitri — Flow meter

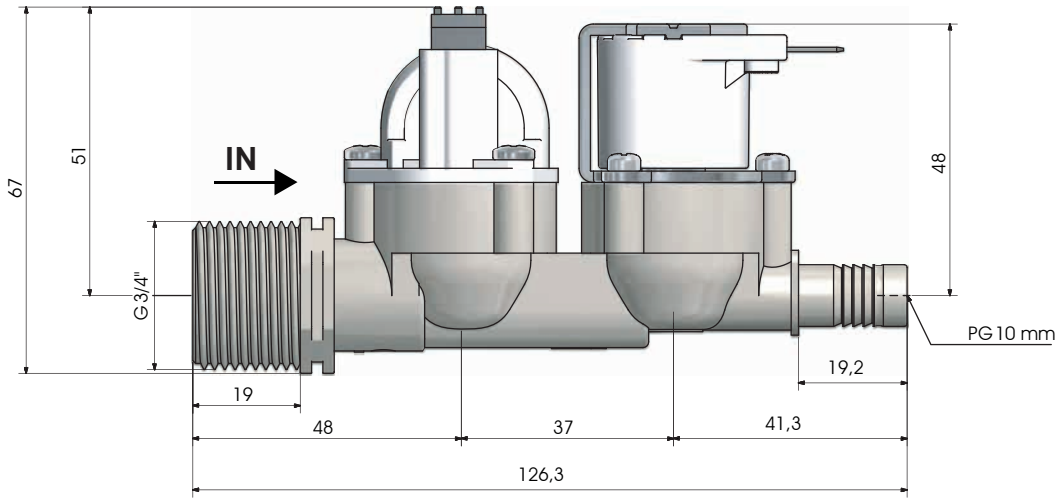


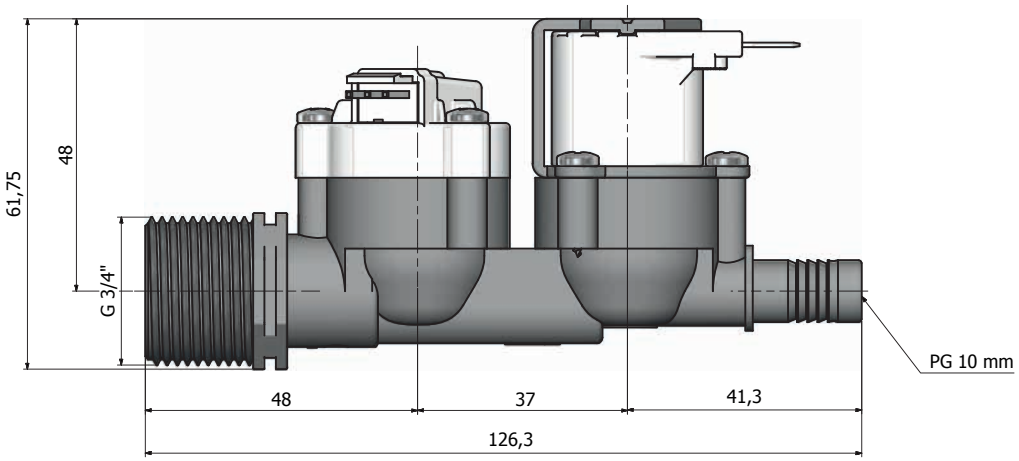






Serie R Dual Contalitri — R Series Dual Flow meter



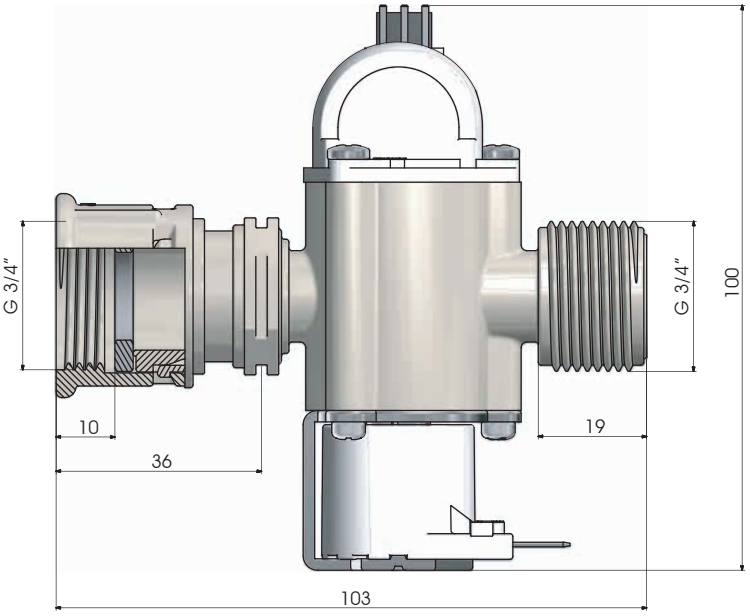


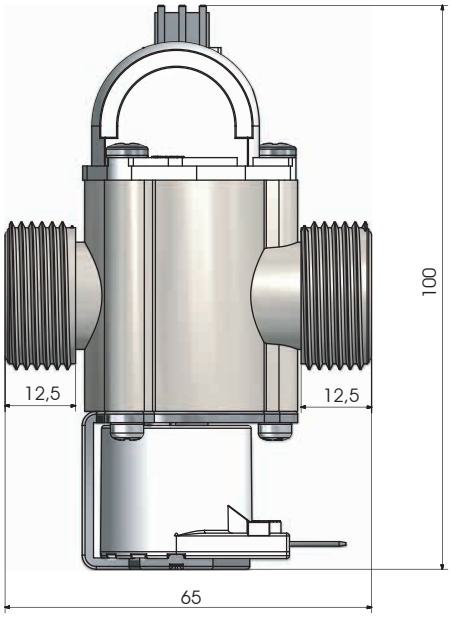
Misure in millimetri - Dimensions in millimeters

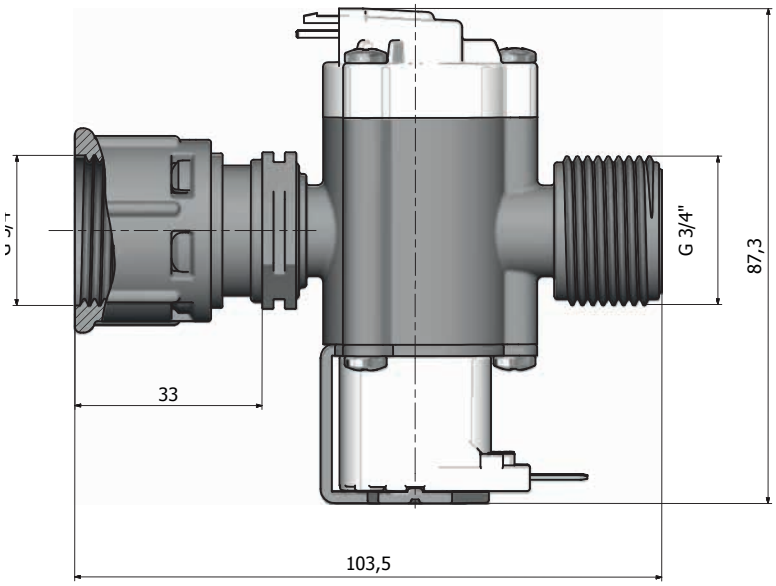
Serie R - Contalitri

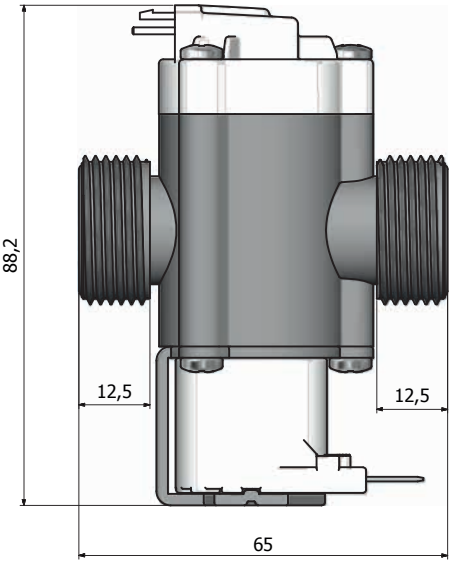
R Series - Flow meter

Serie R Dual Contalitri R Series Dual Flow meter









Misure in millimetri - Dimensions in millimeters

Serie R - Contalitri

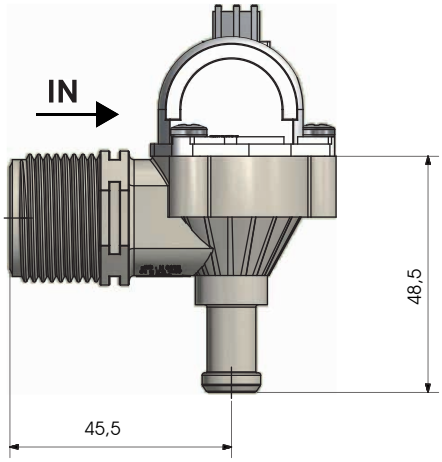
R Series - Flow meter

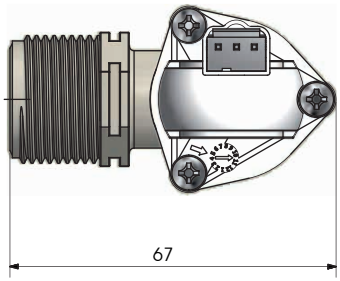
Serie R 90° — R Series 90°

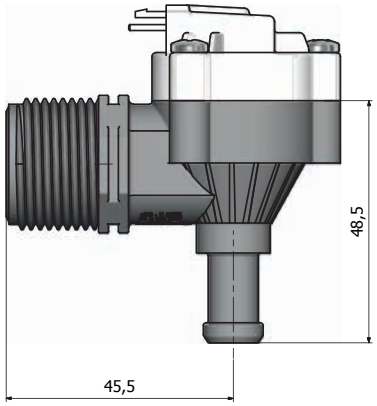
IN:
1/2" M
3/4" M
3/4" M GHT

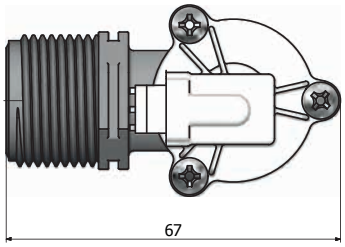
OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
3/8" M
1/2" M

M.O.Q.:
120 pcs







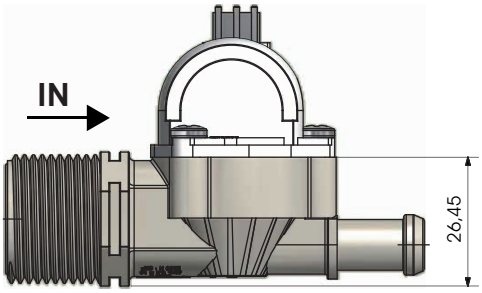


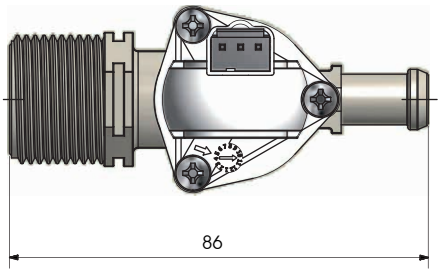
Serie R 180° — R Series 180°

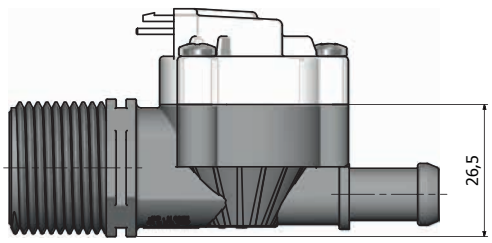
IN:
3/4" M
JG 6 mm
JG 8 mm
JG 10 mm

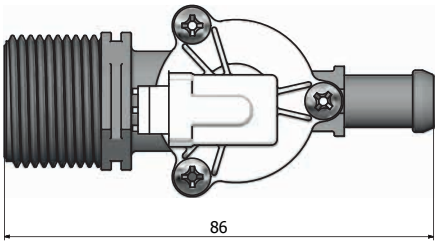
OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
JG 1/4"
1/2" M
PG 6 mm
PG 8 mm
PG 10 mm
PG 12 mm
1/4" M
3/8" M
1/2" M
3/4" M

M.O.Q.:
160 pcs







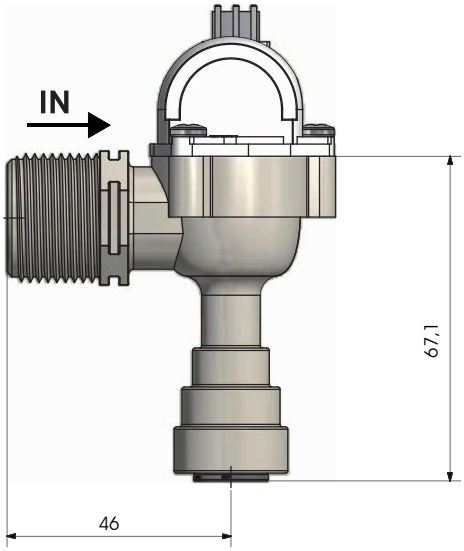


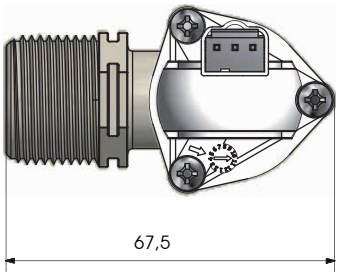
Misure in millimetri - Dimensions in millimeters

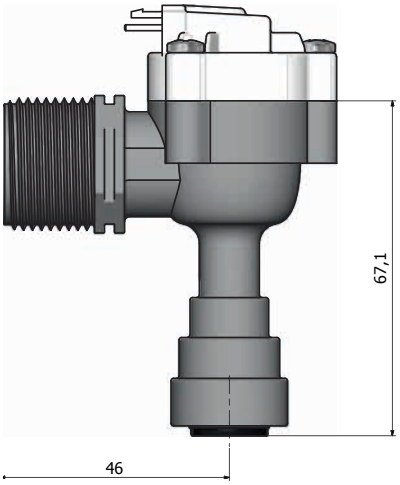
Serie R - Contalitri

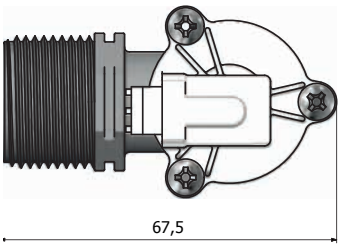
R Series - Flow meter

Serie R 90° JG R Series 90° JG

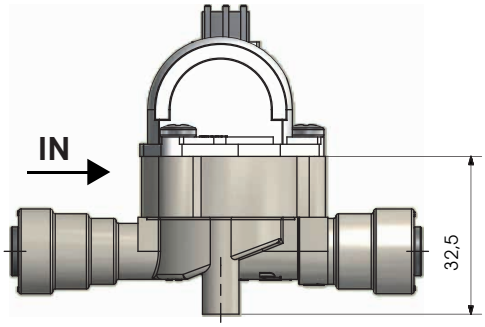


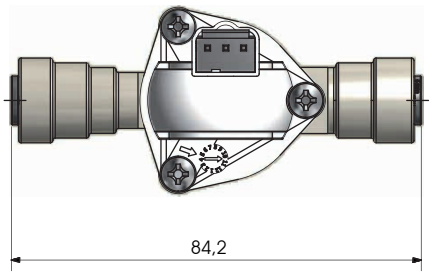


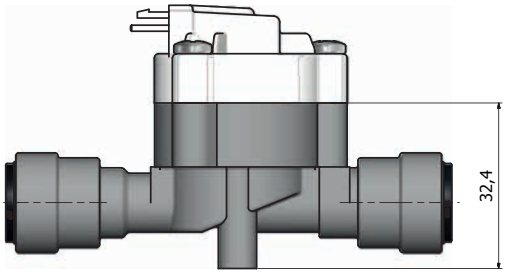


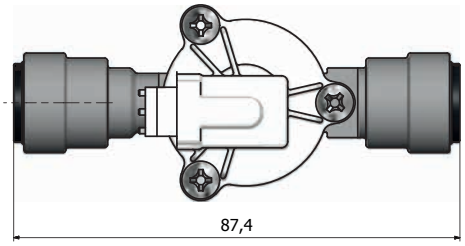


Serie R Mini JG R Series Mini JG









Misure in millimetri - Dimensions in millimeters

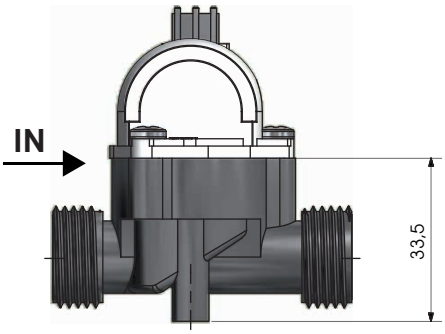
Serie R - Contalitri

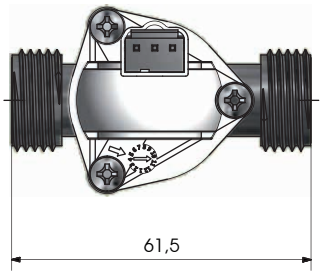
R Series - Flow meter

Serie R Mini Maschio — R Series Mini Male

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

M.O.Q.:
160 pcs

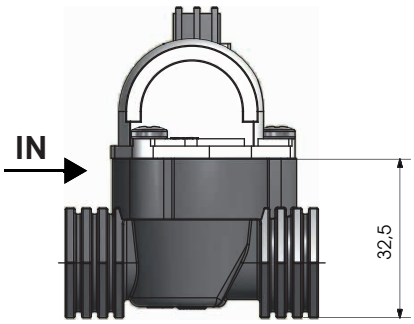


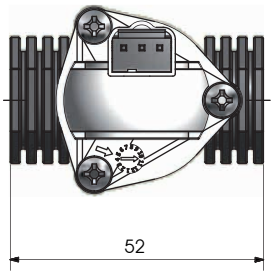


Serie R Mini Femmina — R Series Mini Female

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

M.O.Q.:
160 pcs



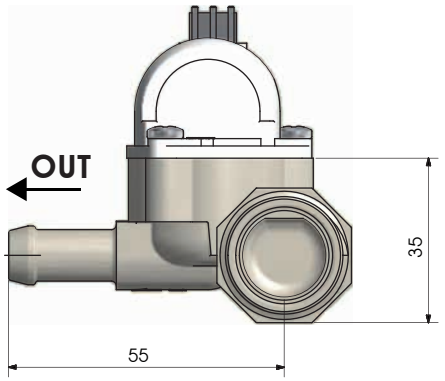


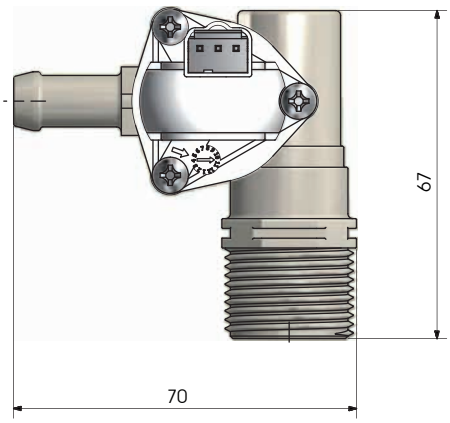
Serie R Modulare — R Series Modular

IN:
3/4" M

OUT:
JG 10 mm

M.O.Q.:
160 pcs



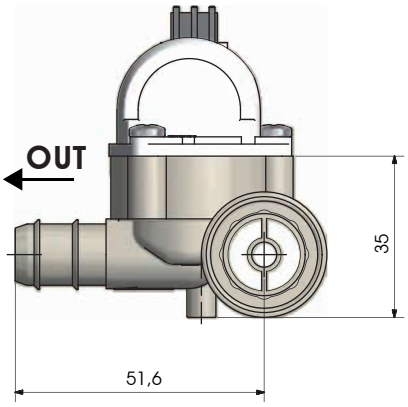


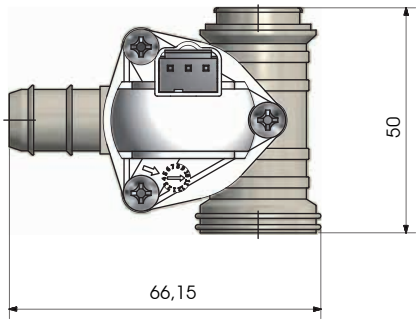
Serie R Componibile — R Series Componible

IN:
3/4" M

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
JG 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

M.O.Q.:
160 pcs





Misure in millimetri - Dimensions in millimeters

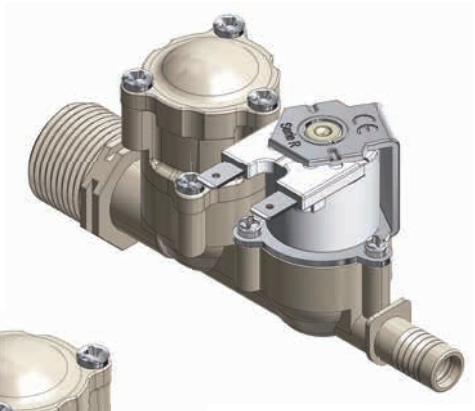
Nulla di grande è mai stato fatto senza passione

Nothing great has ever been done without passion

www.rpesrl.it

Serie R - Riduttore di pressione

R Series - Pressure restrictor



CARATTERISTICHE FISICHE

Montabile su:	Tutta la Serie R
Rid. di pressione:	PA 66 - 30% FV
Corpo valvola:	PA 66 - 30% FV
O-Ring:	LSR
Membrana:	EPDM + tessuto; LSR + tessuto
Stelo:	POM
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Can be fitted on:	All the R Series
Pressure regulator:	PA 66 - 30% GF
Valve body:	PA 66 - 30% GF
O-Ring:	LSR
Diaphragm:	EPDM + textile; LSR + textile
Core:	POM
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione in ingresso:	Max 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C
Direzione del fluido:	Unidirezionale
Riduzione in uscita (fissa):	0,5 bar 1,2 bar 1,5 bar 2 bar 3 bar 4 bar

WORKING SPECIFICATIONS

Inlet pressure:	Max 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C
Flow direction:	Unidirectional
Outlet pressure restrictor (fixed):	0,5 bar 1,2 bar 1,5 bar 2 bar 3 bar 4 bar

CERTIFICAZIONI / CERTIFICATIONS

ATTESTATION DE CONFORMITE SANITAIRE ACS · CE · NSF · KTW · W270

Serie R - Riduttore di pressione

R Series - Pressure restrictor

GRAFICO PRESSIONI / PRESSURE CHART (P IN / P OUT)

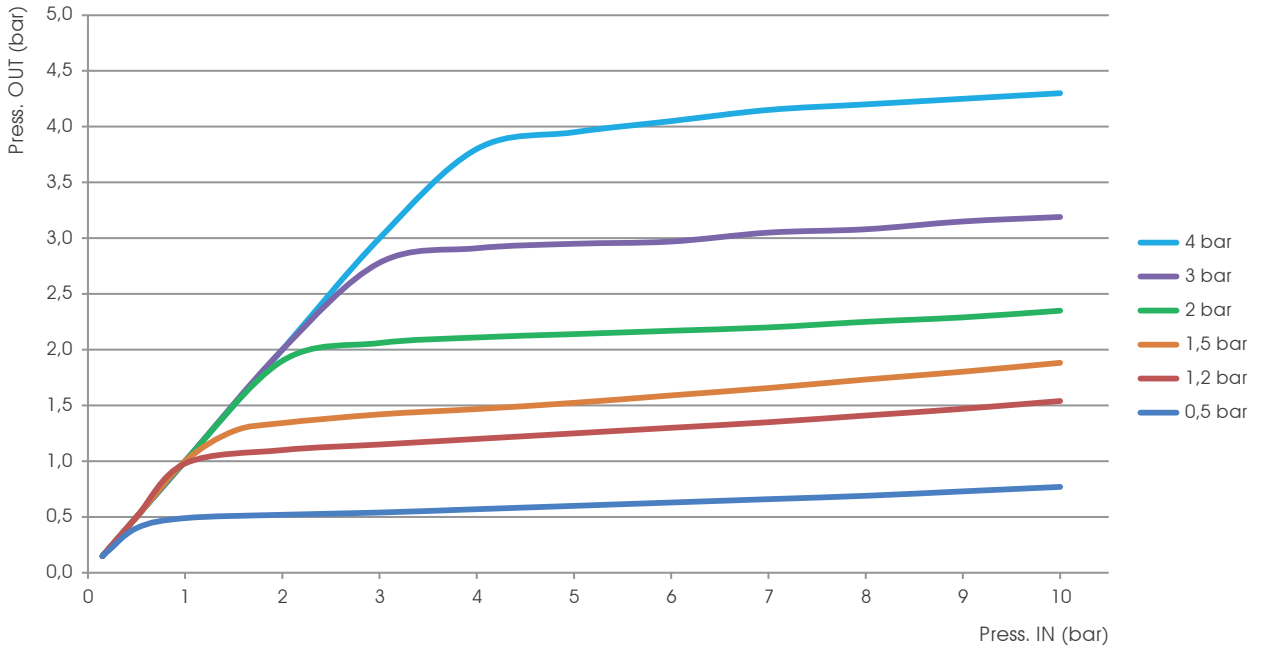
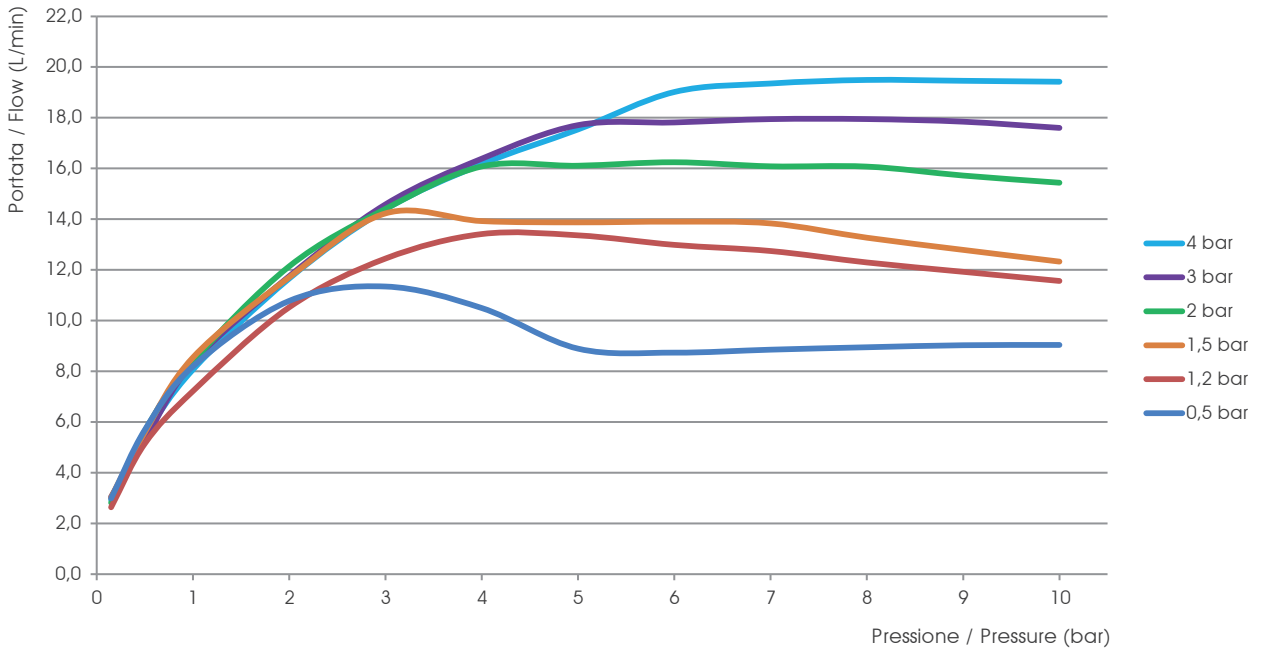
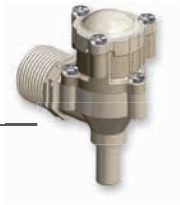


GRAFICO PORTATE RID. DI PRESSIONE / FLOW RATES CHART PRESSURE RESTRICTOR

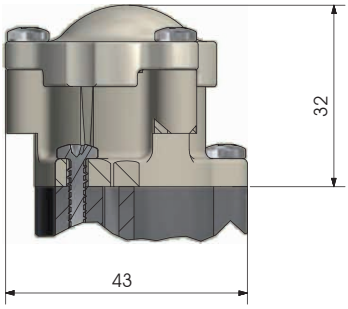


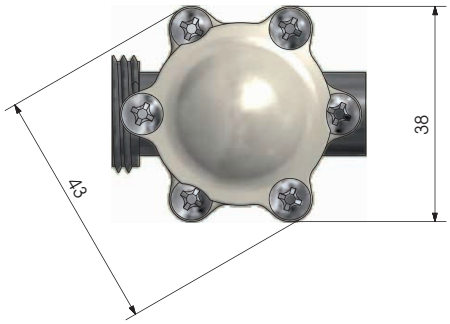
Serie R - Riduttore di pressione

R Series - Pressure restrictor



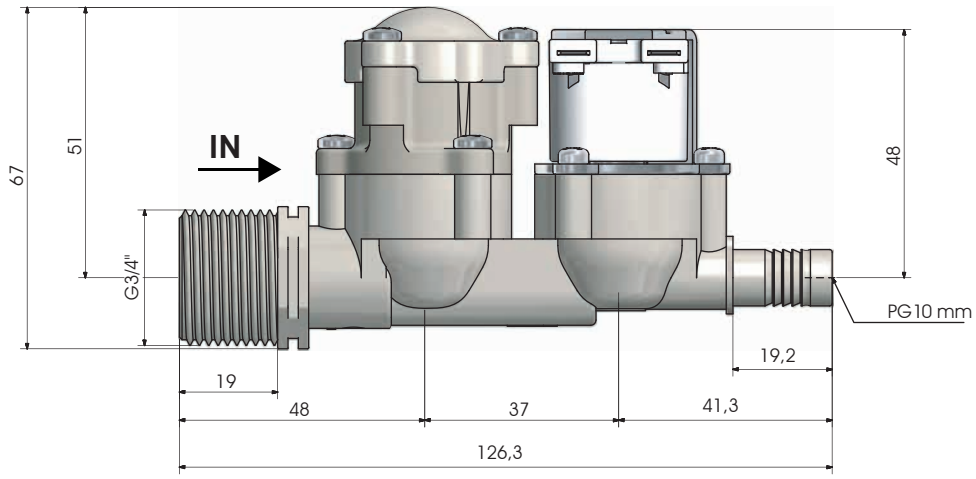
Riduttore di pressione — Pressure restrictor





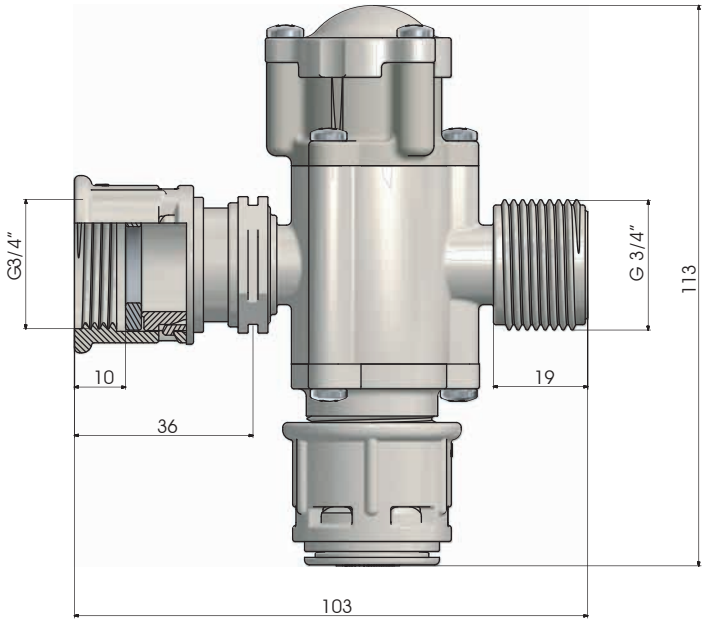
Misure in millimetri - Dimensions in millimeters

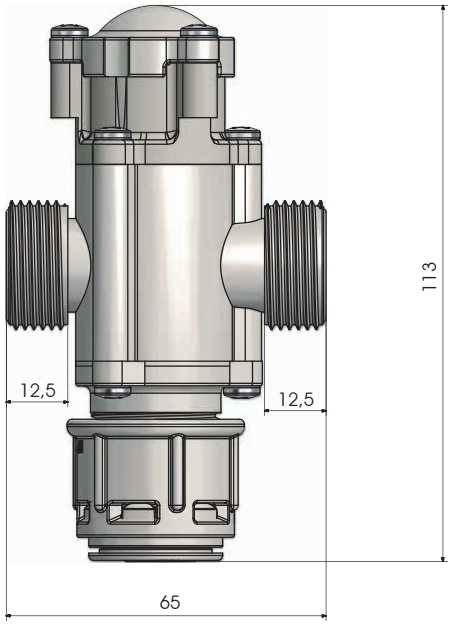
Serie R Dual Riduttore di pressione — R Series Dual Pressure restrictor



Misure in millimetri - Dimensions in millimeters

Serie R Dual Riduttore di pressione — R Series Dual Pressure restrictor





Misure in millimetri - Dimensions in millimeters

Serie R - Riduttore di pressione

R Series - Pressure restrictor

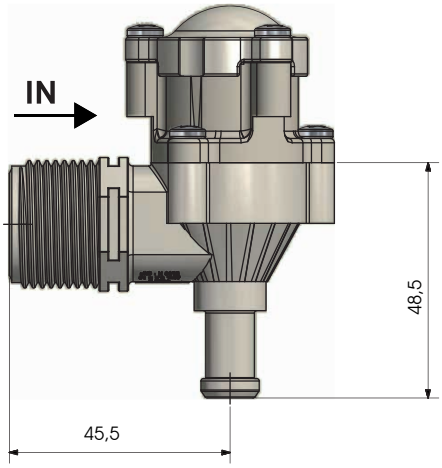
Serie R 90°

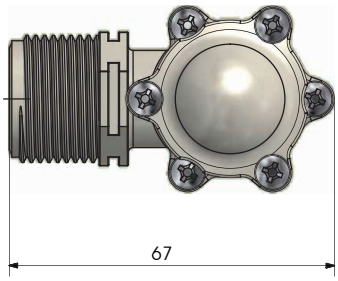
R Series 90°

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

M.O.Q.:
120 pcs





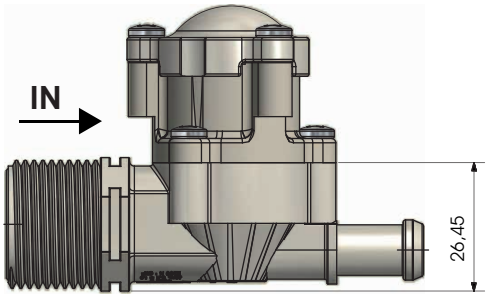
Serie R 180°

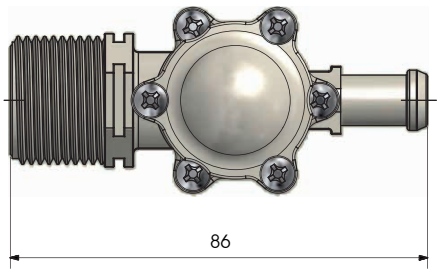
R Series 180°

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

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
JG 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

M.O.Q.:
160 pcs





Misure in millimetri - Dimensions in millimeters

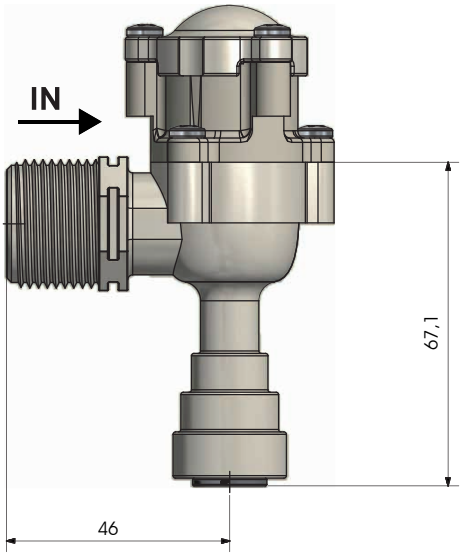
Serie R 90° JG

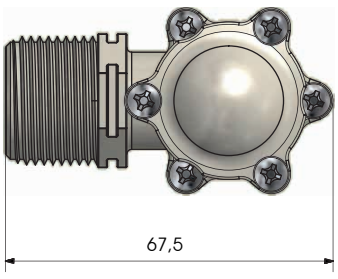
R Series 90° JG

IN:
3/4" M

OUT:
JG 6 mm
JG 8 mm
JG 10 mm
JG 12 mm

M.O.Q.:
120 pcs



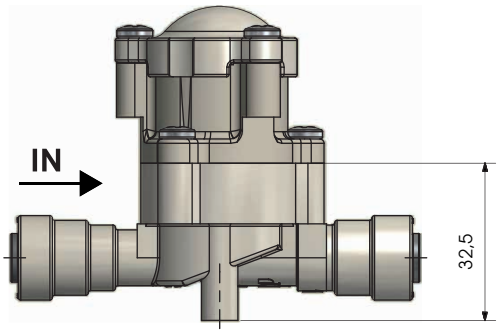


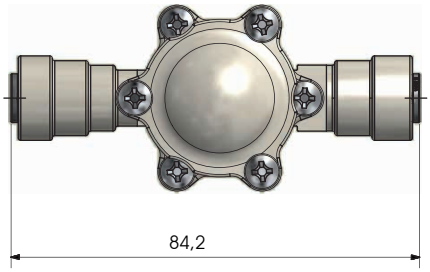
Serie R Mini JG

R Series Mini JG

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

M.O.Q.:
160 pcs

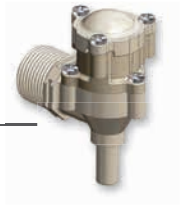




Misure in millimetri - Dimensions in millimeters

Serie R - Riduttore di pressione

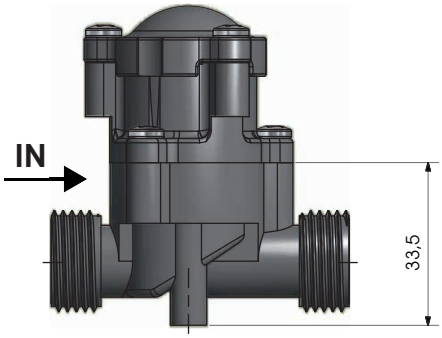
R Series - Pressure restrictor

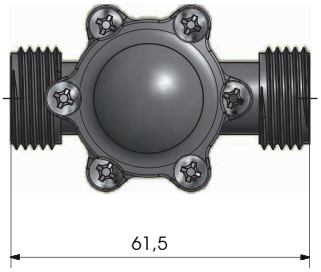


Serie R Mini Maschio — R Series Mini Male

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

M.O.Q.:
160 pcs

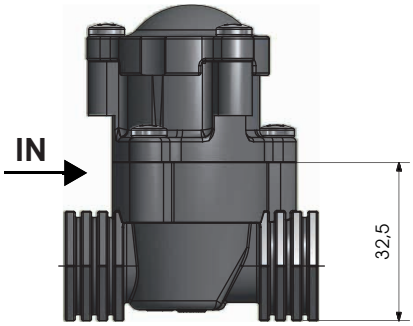


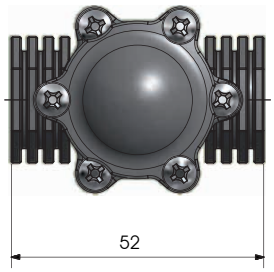


Serie R Mini Femmina — R Series Mini Female

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

M.O.Q.:
160 pcs





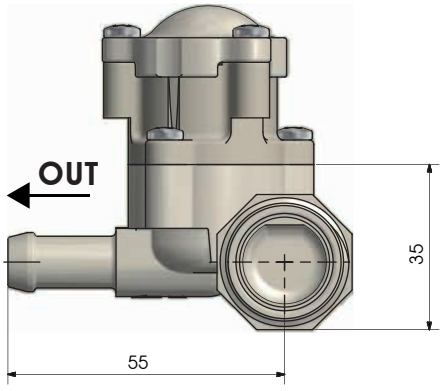
Misure in millimetri - Dimensions in millimeters

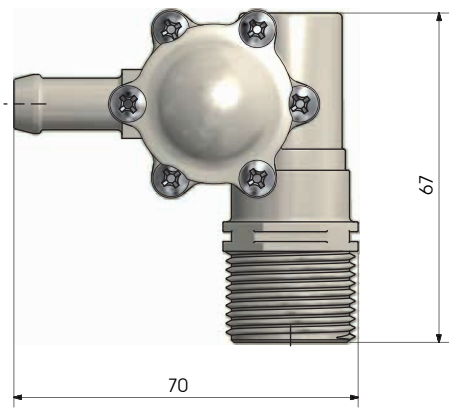
Serie R Modulare — R Series Modular

IN:
3/4" M

OUT:
JG 10 mm

M.O.Q.:
160 pcs



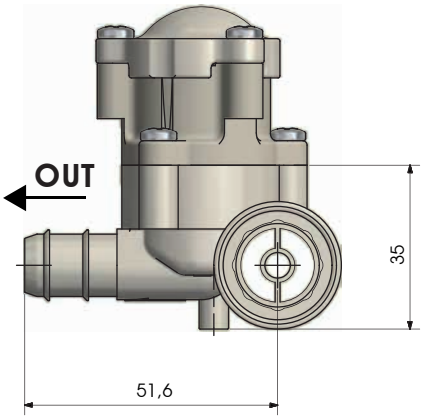


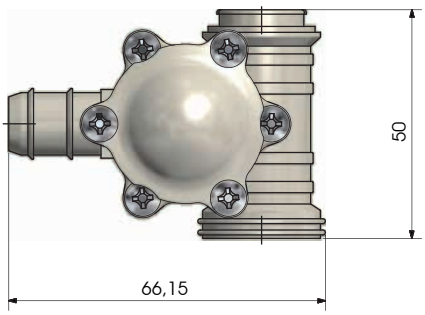
Serie R Componibile — R Series Componible

IN:
3/4" M

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
JG 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

M.O.Q.:
160 pcs





Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

Nothing great has ever been done without passion

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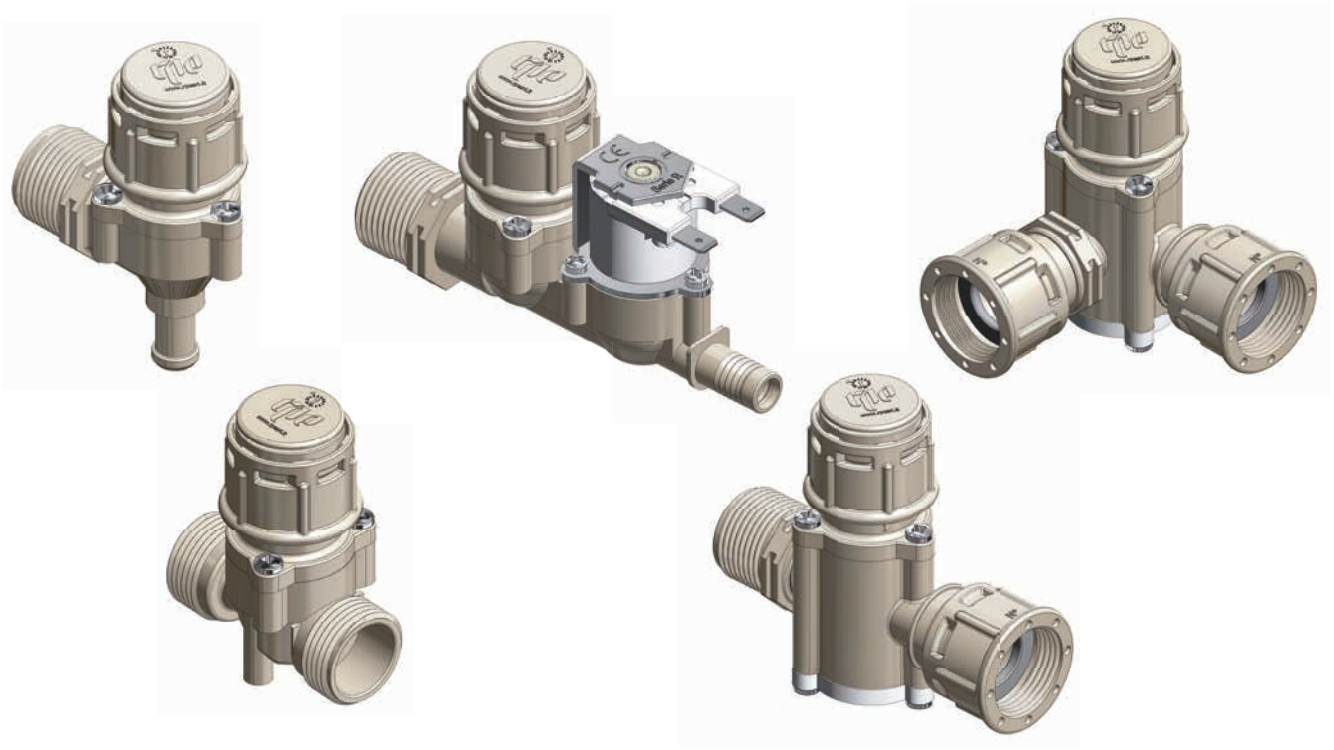
Serie R - Filtro

R Series - Filter



CARATTERISTICHE FISICHE

Montabile su:	Tutta la Serie R
Coperchio filtro:	PA 66 - 30% FV
Corpo filtro:	PA 66 - 30% FV
Corpo valvola:	PA 66 - 30% FV
O-Ring:	NBR; LSR
Rete filtrante:	Acciaio Inox
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Can be fitted on:	All the R Series
Filter cap:	PA 66 - 30% GF
Filter body:	PA 66 - 30% GF
Valve body:	PA 66 - 30% GF
O-Ring:	NBR; LSR
Filter mesh:	Stainless steel
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione in ingresso:	Max 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C
Direzione del fluido:	Bidirezionale
Gradi di filtrazione:	131 µ (114 mesh) 168 µ (86 mesh) 237 µ (64 mesh) 307 µ (49 mesh)

WORKING SPECIFICATIONS

Inlet pressure:	Max 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C
Flow direction:	Bidirectional
Filtration:	131 µ (114 mesh) 168 µ (86 mesh) 237 µ (64 mesh) 307 µ (49 mesh)

CERTIFICAZIONI / CERTIFICATIONS

WRAS APPROVED PRODUCT · ATTESTATION DE CONFORMITÉ SANITAIRE ACS · CE · NSF · KTW · W270

Serie R - Cartucce Filtro

R Series - Filter cartridges

CARATTERISTICHE	
Colore:	Verde
Grado di filtrazione:	131 µ (114 mesh)
Approvazione alimentare:	Si

SPECIFICATIONS	
Color:	Green
Filtration:	131 µ (114 mesh)
Food approval:	Yes

CARATTERISTICHE	
Colore:	Nero
Grado di filtrazione:	168 µ (86 mesh)
Approvazione alimentare:	Si

SPECIFICATIONS	
Color:	Black
Filtration:	168 µ (86 mesh)
Food approval:	Yes

CARATTERISTICHE	
Colore:	Bianco
Grado di filtrazione:	237 µ (64 mesh)
Approvazione alimentare:	Si

SPECIFICATIONS	
Color:	White
Filtration:	237 µ (64 mesh)
Food approval:	Yes

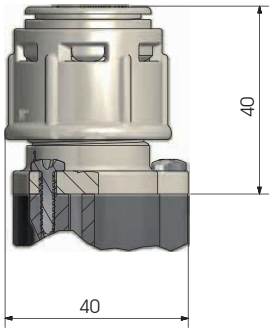
CARATTERISTICHE	
Colore:	Blu
Grado di filtrazione:	307 µ (49 mesh)
Approvazione alimentare:	Si

SPECIFICATIONS	
Color:	Blue
Filtration:	307 µ (49 mesh)
Food approval:	Yes

Serie R - Filtro

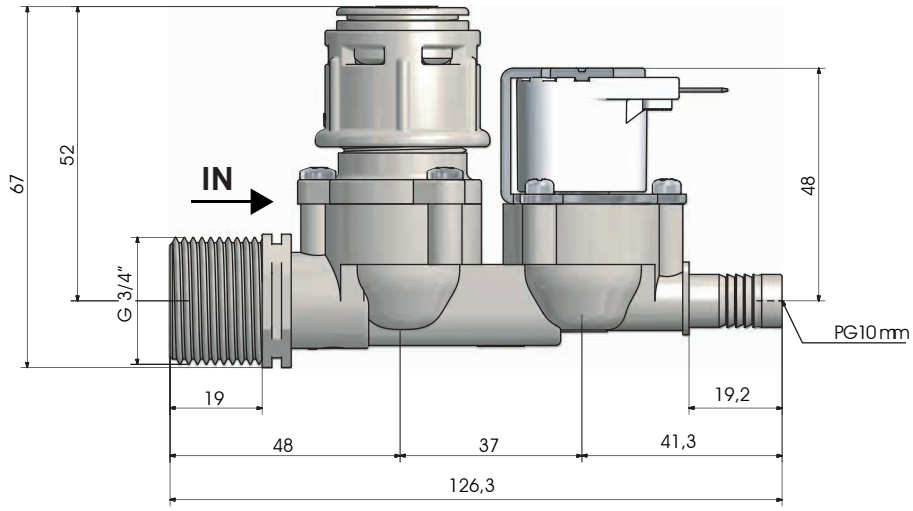
R Series - Filter

Serie R Filtro — R Series Filter



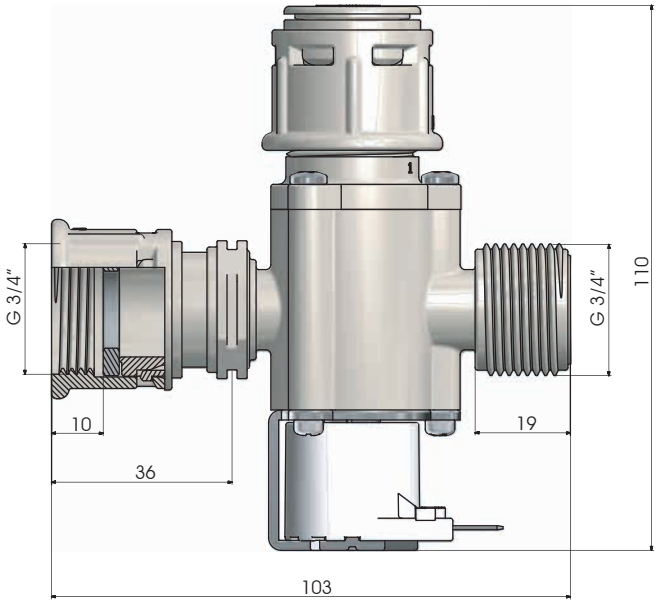
Misure in millimetri - Dimensions in millimeters

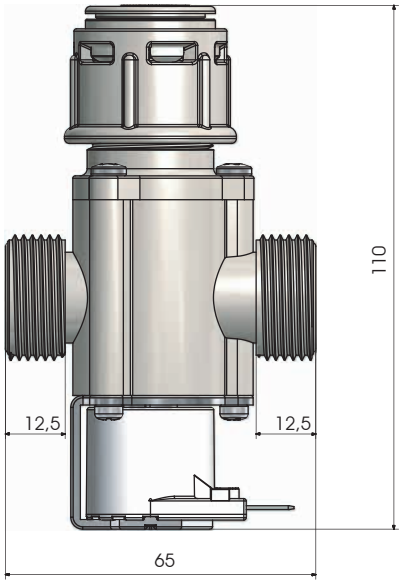
Serie R Dual Filtro — R Series Dual Filter



Misure in millimetri - Dimensions in millimeters

Serie R Dual Filtro — R Series Dual Filter





Misure in millimetri - Dimensions in millimeters

Serie R - Filtro

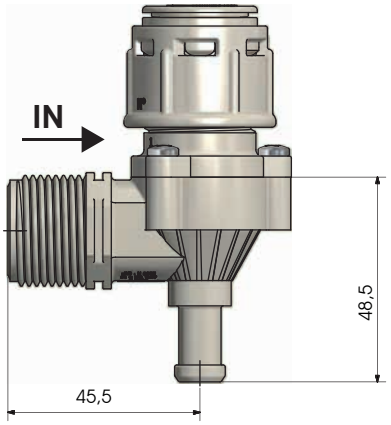
R Series - Filter

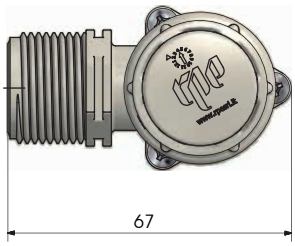
Serie R 90° — R Series 90°

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

M.O.Q. :
120 pcs



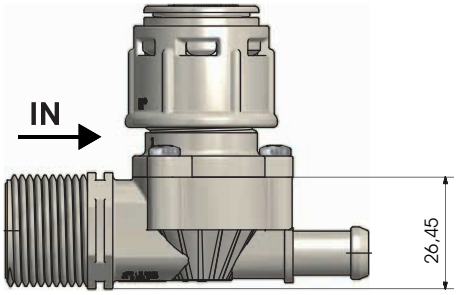


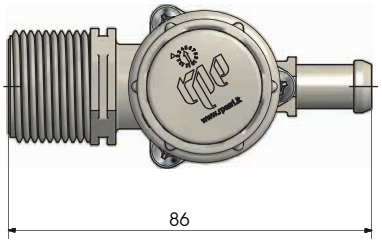
Serie R 180° — R Series 180°

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

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
JG 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

M.O.Q. :
160 pcs





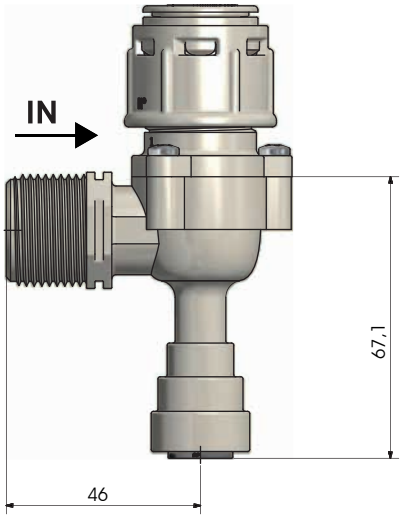
Misure in millimetri - Dimensions in millimeters

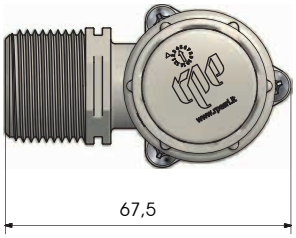
Serie R 90° JG — R Series 90° JG

IN:
3/4" M

OUT:
JG 6 mm
JG 8 mm
JG 10 mm
JG 12 mm

M.O.Q. :
120 pcs

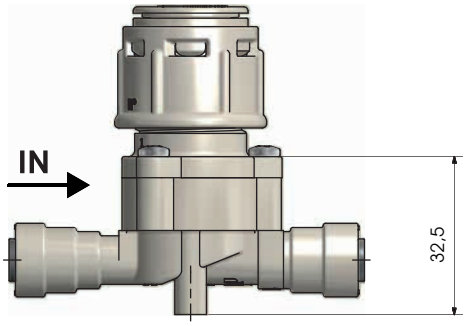


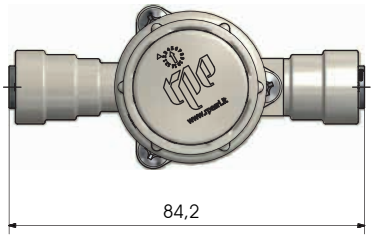


Serie R Mini JG — R Series Mini JG

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

M.O.Q. :
160 pcs





Misure in millimetri - Dimensions in millimeters

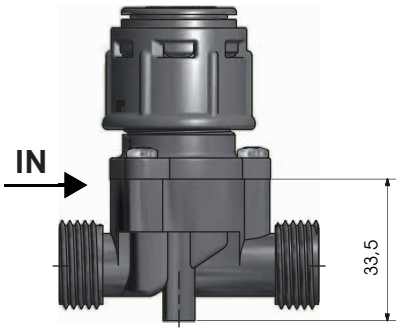
Serie R - Filtro

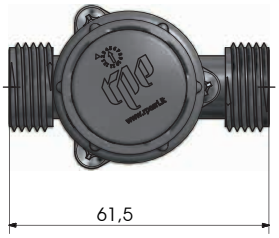
R Series - Filter

Serie R Mini Maschio — R Series Mini Male

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

M.O.Q. :
160 pcs

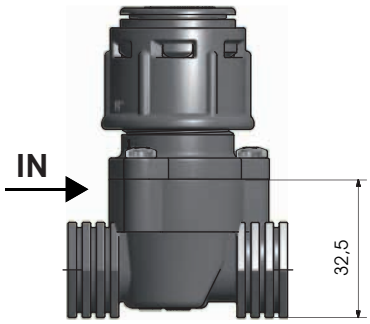


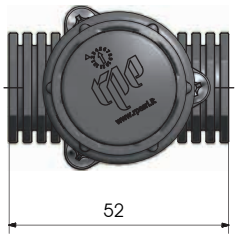


Serie R Mini Femmina — R Series Mini Female

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

M.O.Q. :
160 pcs





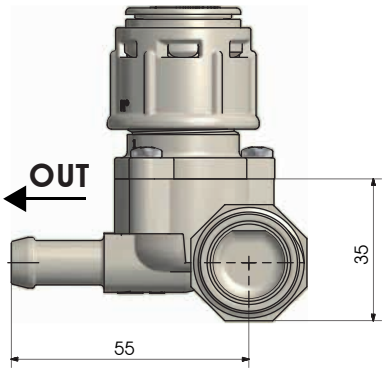
Misure in millimetri - Dimensions in millimeters

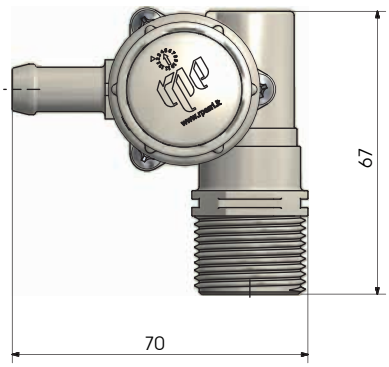
Serie R Modulare — R Series Modular

IN:
3/4" M

OUT:
JG 10 mm

M.O.Q. :
160 pcs



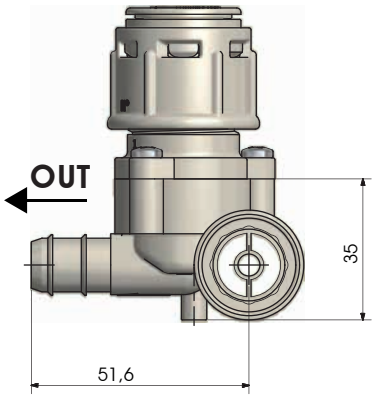


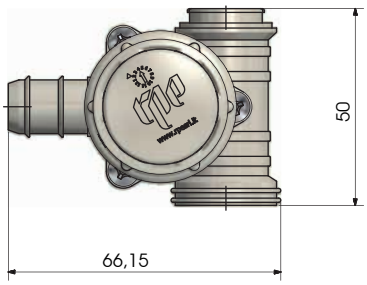
Serie R Componibile — R Series Componible

IN:
3/4" M

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
JG 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

M.O.Q. :
160 pcs



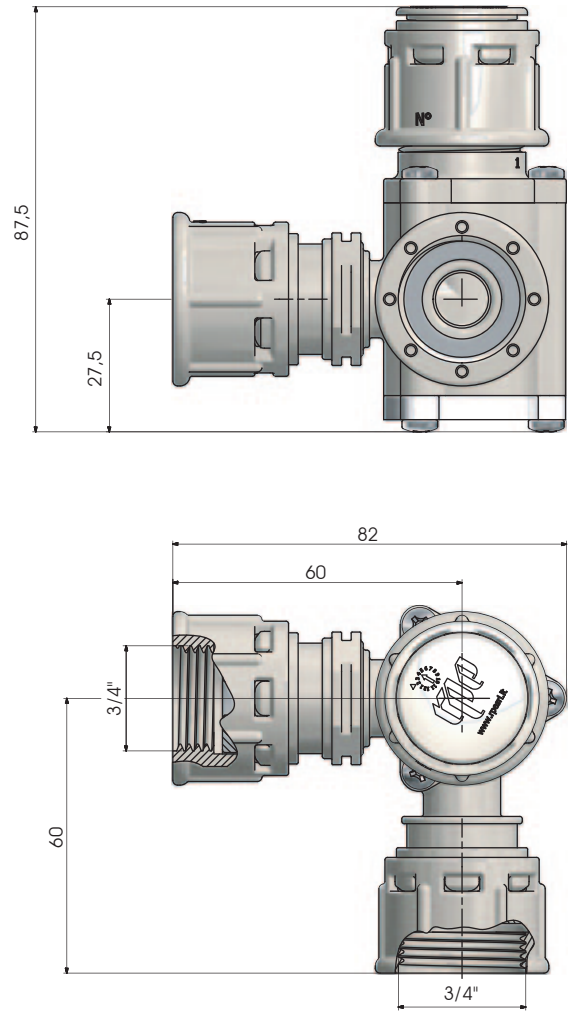


Misure in millimetri - Dimensions in millimeters

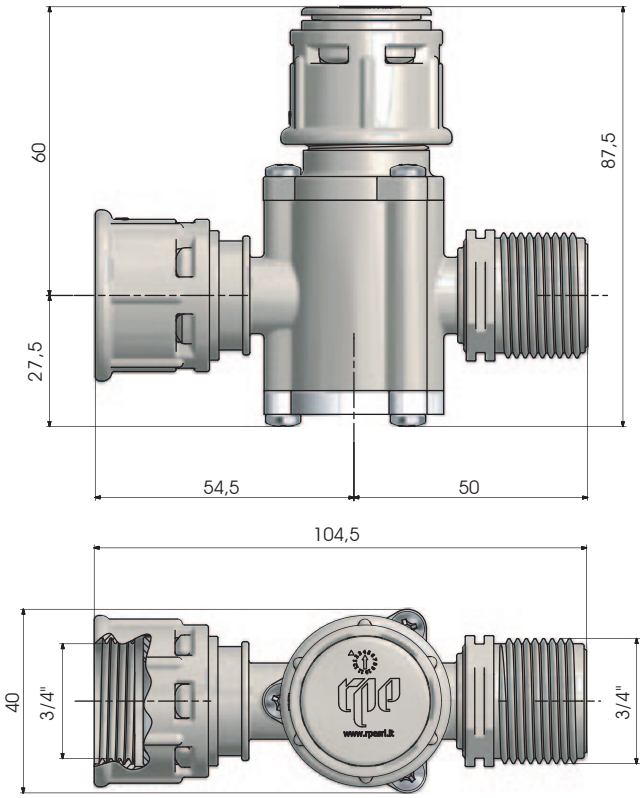
Serie R - Filtro autobloccante

R Series - Self-locking Filter

90°



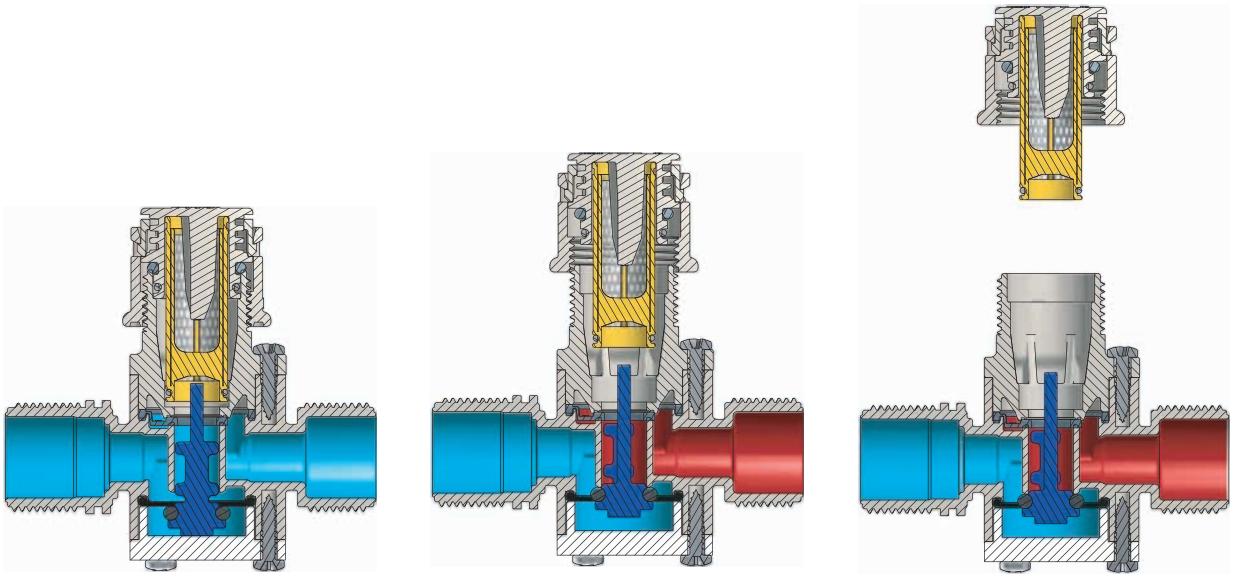
180°



Misure in millimetri - Dimensions in millimeters

Dettaglio auto-bloccante

Self-locking detail



APERTO / OPEN

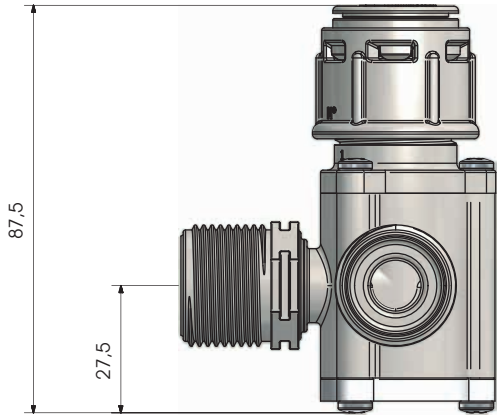
CHIUSO / CLOSED

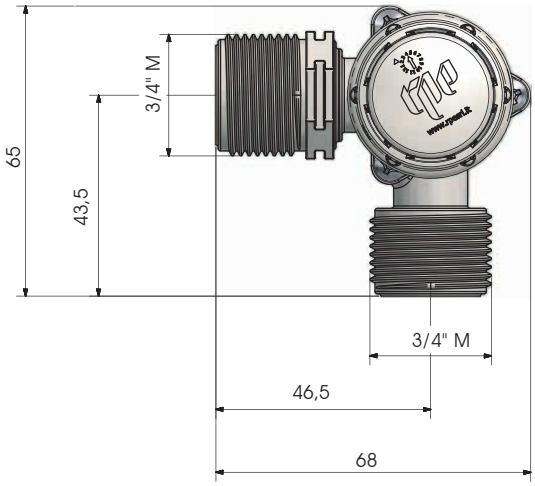
CHIUSO / CLOSED

Serie R - Filtro autobloccante

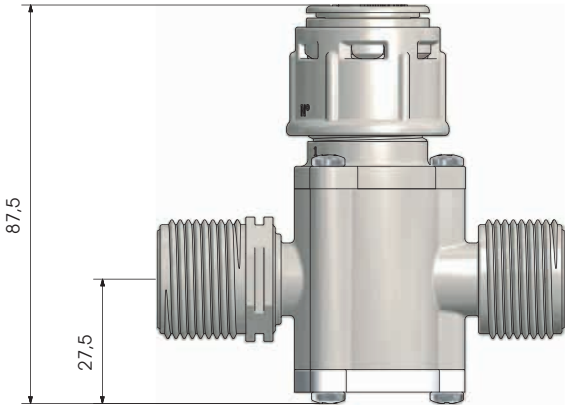
R Series - Self-locking Filter

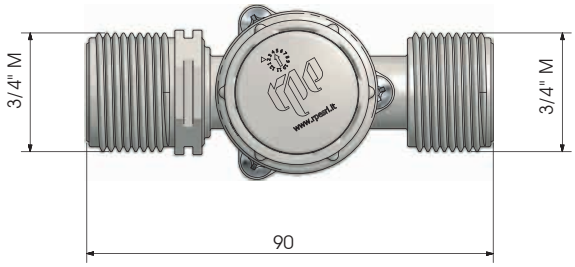
90°





180°








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

Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

Nothing great has ever been done without passion

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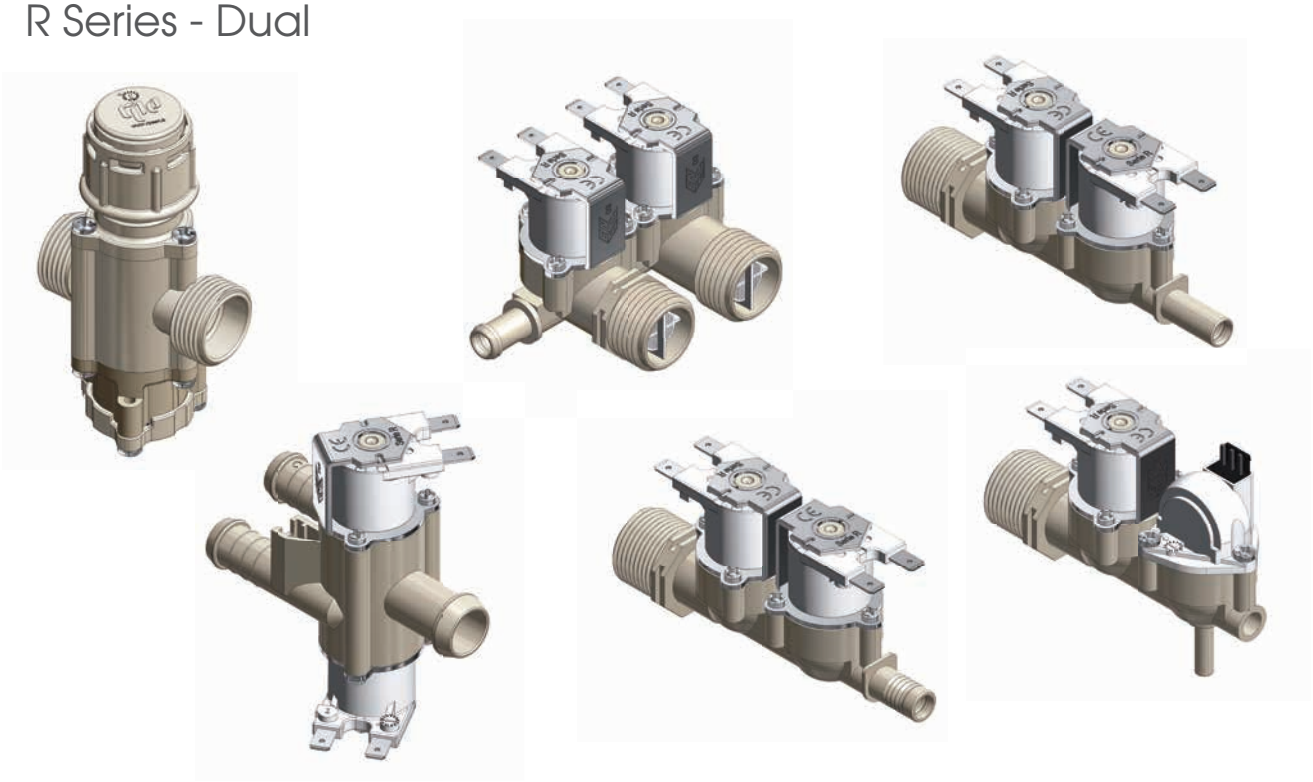
Serie R - Dual

R Series - Dual



CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR; LSR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR; LSR
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,2 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0,2 - 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C
Control:	NC; NO; Latching
Fluid direction:	Unidirectional

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm
Cavi bipolari max 5000 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 5000 mm
Bipolar wires max 5000 mm

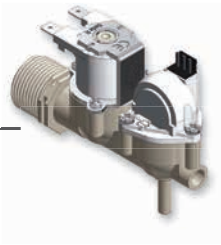
CERTIFICAZIONI / CERTIFICATIONS

DM 174/2001

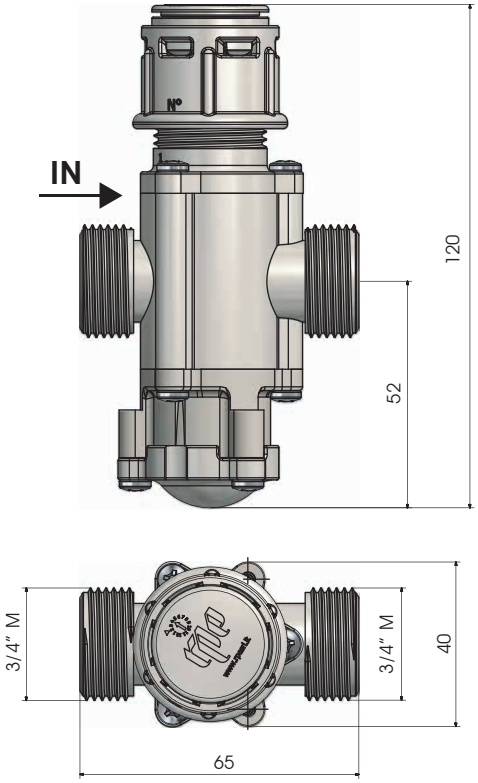
KTW
W270

Serie R - Dual

R Series - Dual



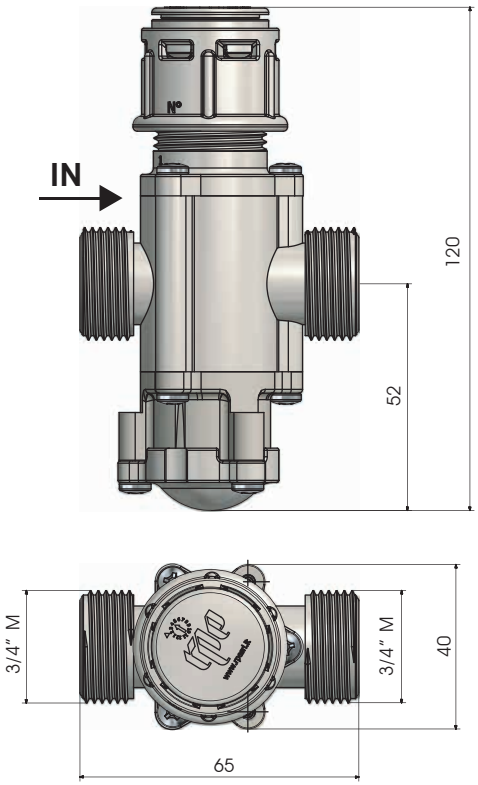
R Dual 004



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

R Dual 005



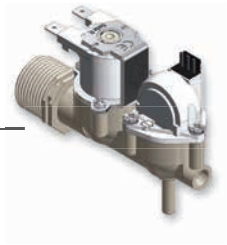
	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	3/4" M	NO	NO	NO	NO
OUT	3/4" M	NO	NO	NO	NO

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	✓	✓	✓	✓

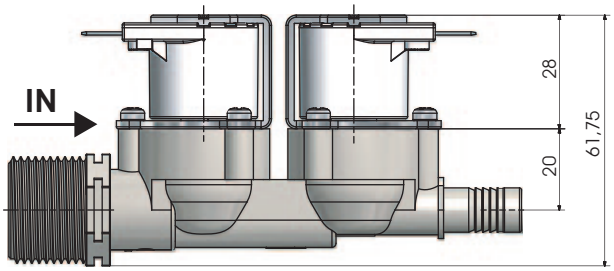
Misure in millimetri - Dimensions in millimeters

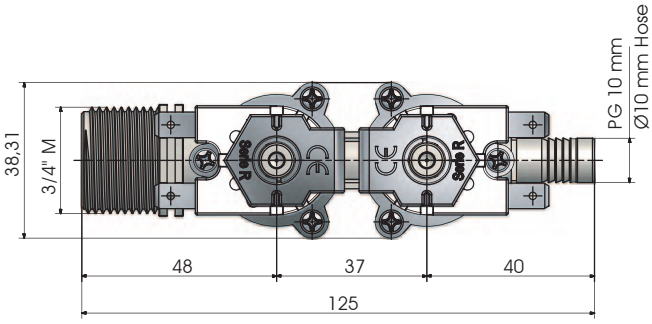
Serie R - Dual

R Series - Dual



R Dual 257



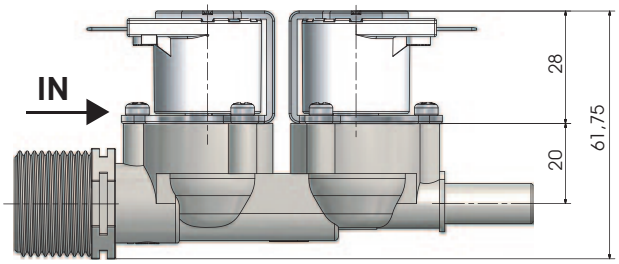


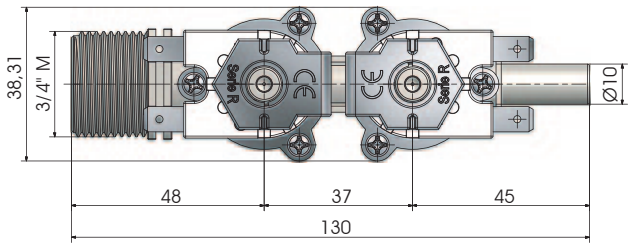
	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	3/4" M	✓		✓	✓
OUT	PG 10 mm		✓		✓

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 266





	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	3/4" M	✓		✓	✓
OUT	Codolo 10 mm		✓		✓

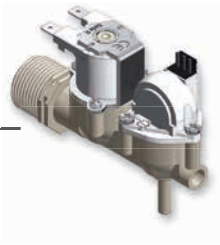
P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	✓	✓		✓
Rid. di pressione Pressure restr.	✓			✓
Contalitri Flow meter	✓	✓		
Filtro Filter	✓	✓		✓

Legenda / Key: Codolo = Spigot

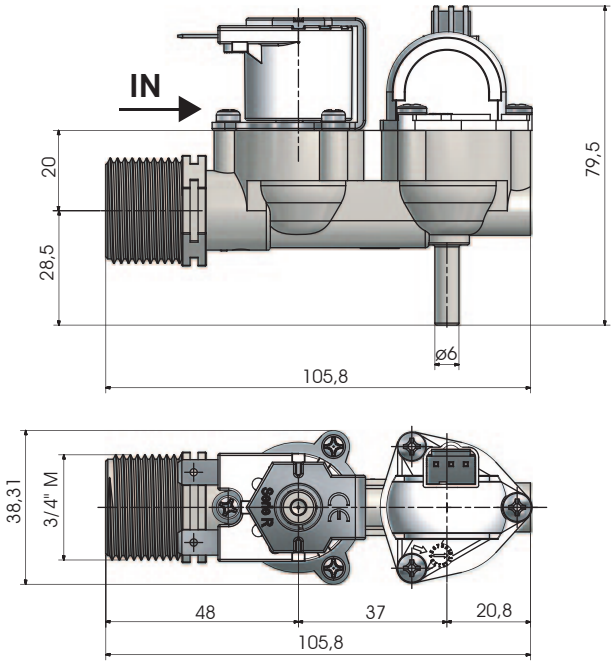
Misure in millimetri - Dimensions in millimeters

Serie R - Dual

R Series - Dual



R Dual 278

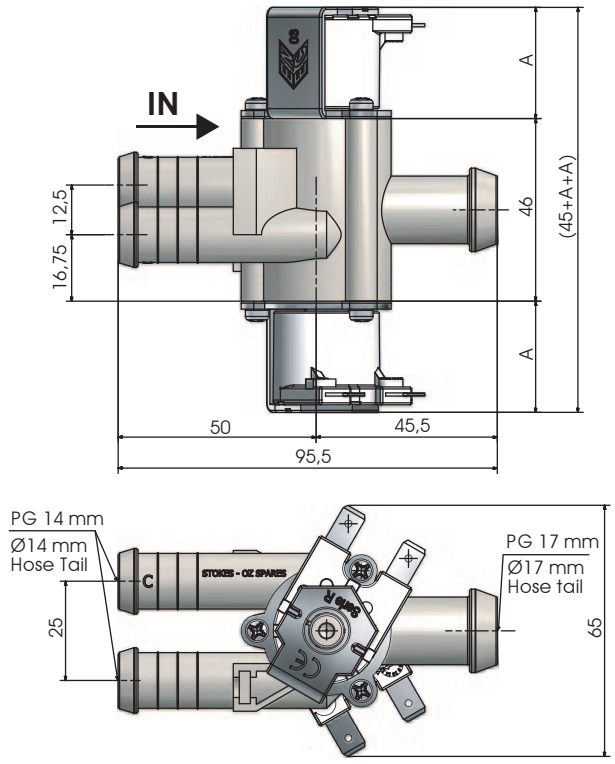


	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	3/4" M	✓		✓	✓
OUT	Codolo 6 mm				✓

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: Codolo = Spigot

R Dual 238



	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	PG 14 mm	NO	NO	NO	NO
IN	PG 14 mm	NO	NO	NO	NO
OUT	PG 17 mm	NO	NO	NO	NO

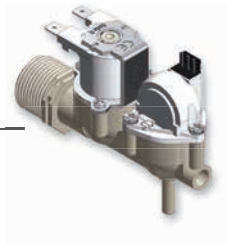
Legenda / Key: PG = Portagomma / Hose tail

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	✓	✓	✓	✓

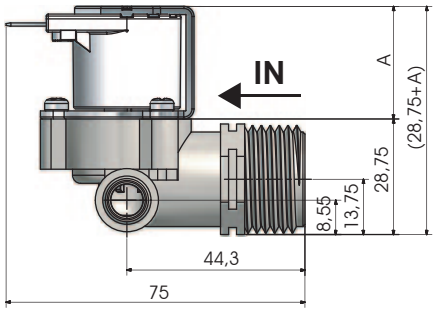
Legenda / Key: PG = Portagomma / Hose tail

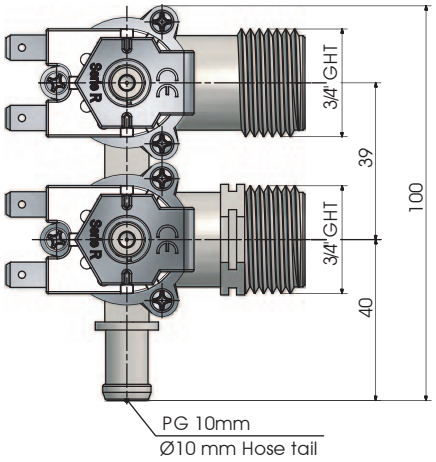
Misure in millimetri - Dimensions in millimeters

Serie R - Dual



R Dual 243



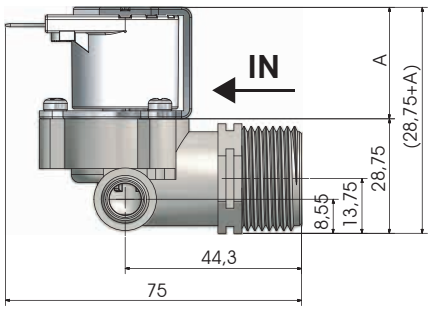


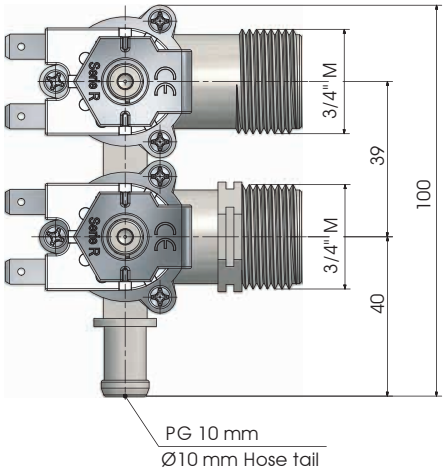
	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	3/4" M GHT	✓		✓	
IN	3/4" M GHT	✓		✓	
OUT	PG 10 mm		✓		

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 246





	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	3/4" M	✓		✓	
IN	3/4" M	✓		✓	
OUT	PG 10 mm		✓		

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

Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

Nothing great has ever been done without passion

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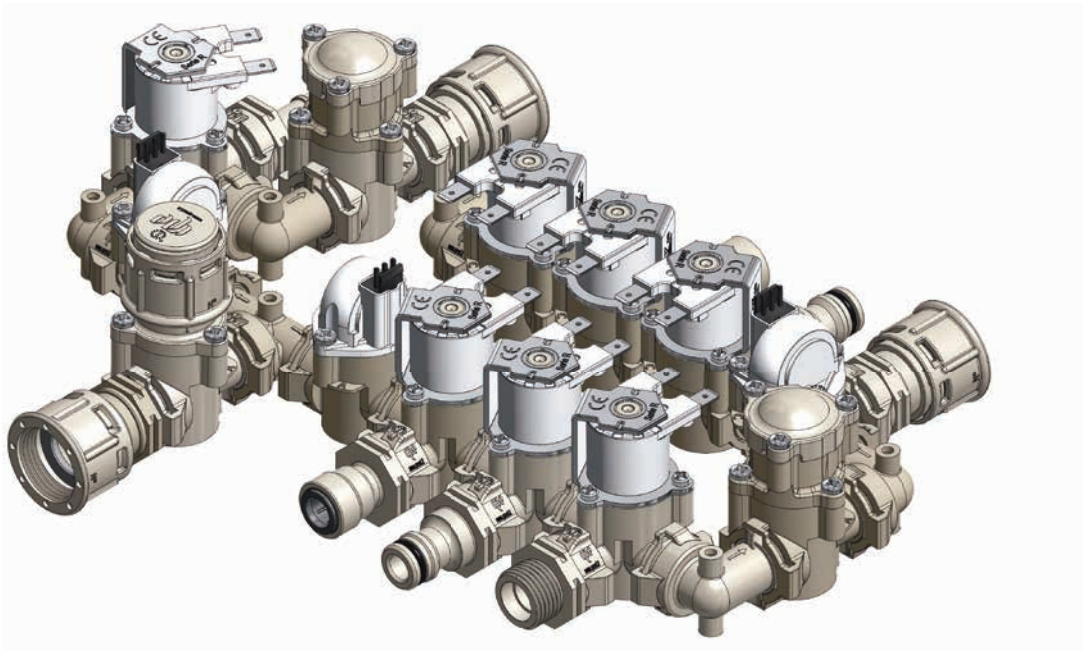
Serie R - Universale

R Series - Universal



CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR; LSR; EPDM
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR; LSR; EPDM
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,2 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C - Tm 60° C - ED 100% Tm 90° C (3 ON - 5 OFF)
Diametro nominale:	DN 11 mm
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale
CV:	Vedi pagine successive

WORKING SPECIFICATIONS

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 ON - 5 OFF)
Orifice:	ND 11 mm
Control:	NC; NO; Latching
Fluid direction:	Unidirectional
CV:	See next pages

CONNESSIONI IDRAULICHE

Ingresso corpo:	Baionetta
Uscita corpo:	Baionetta
Connessioni:	Varie

HYDRAULIC CONNECTIONS

Valve body Inlet :	Bayonet
Valve body Outlet :	Bayonet
Connections:	Various

CERTIFICAZIONI / CERTIFICATIONS

DM 174/2001

KTW
W270

Serie R - Universale

R Series - Universal

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

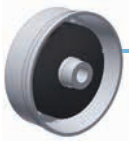
1/2" M (IN)

JG 10 mm (IN)

1/2" M (OUT)

JG 10 mm (OUT)

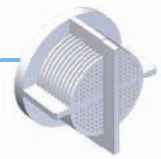
ACCESSORI
Accessories



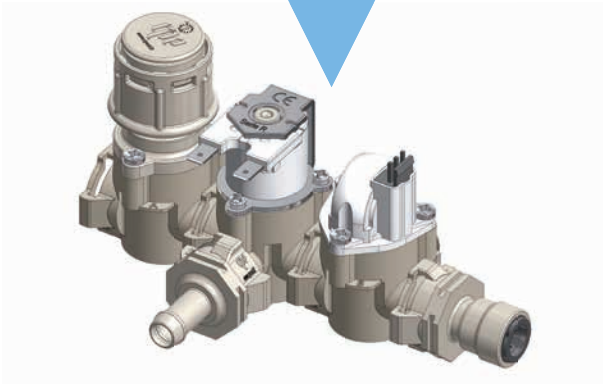
REG. DI FLUSSO IN ENTRATA
Inlet flow regulator

RID. DI PORTATA IN USCITA
Outlet flow restrictor

CHECK
VALVE



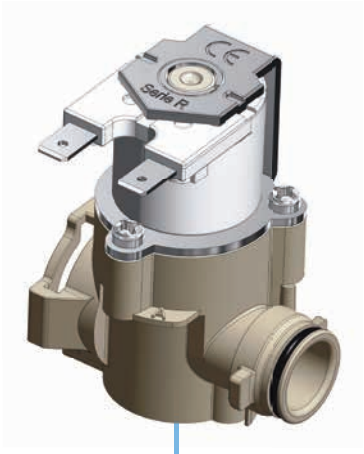
FILTRO
Filter

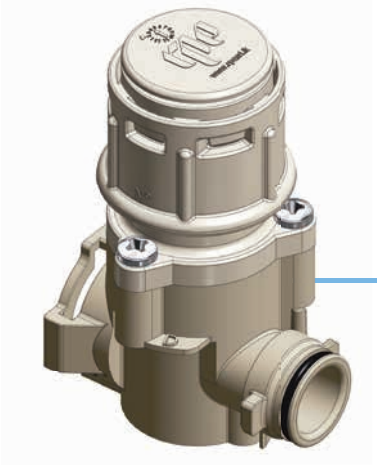


Serie R - Universale

R Series - Universal

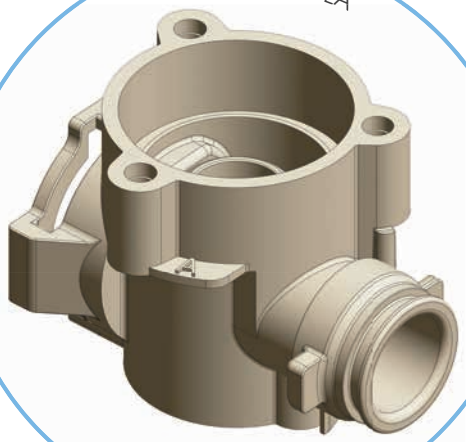
SOLENOIDE
Solenoid



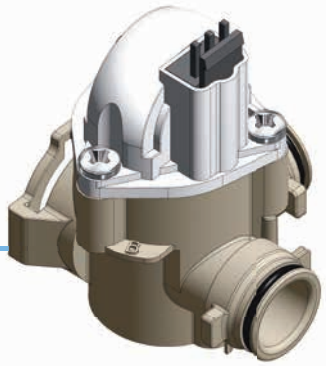


FILTRO
Filter

CORPO VALVOLA



Valve body

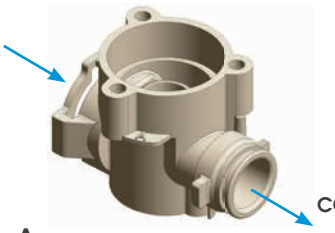


CONTALITRI
Flow meter

RIDUTTORE DI PRESSIONE
Pressure restrictor

Serie R - Universale - Corpi valvola

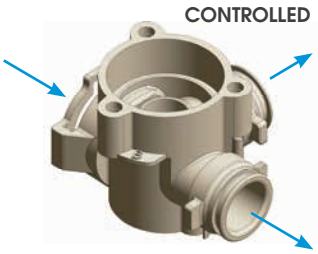
R Series - Universal - Valve bodies



A

CARATTERISTICHE	
Modello:	Corpo valvola A
Uscita:	1 controllata

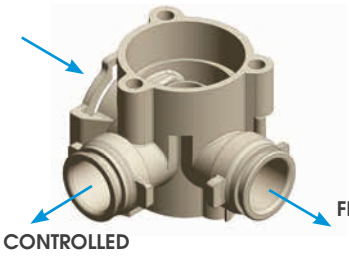
SPECIFICATIONS	
Model:	Valve body A
Outlet:	1 controlled



B

CARATTERISTICHE	
Modello:	Corpo valvola B
Uscite:	1 passante 1 controllata

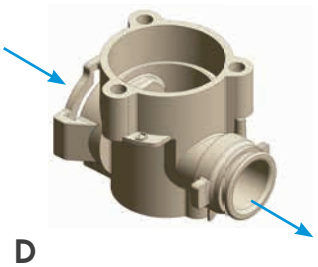
SPECIFICATIONS	
Model:	Valve body B
Outlets:	1 free 1 controlled



C

CARATTERISTICHE	
Modello:	Corpo valvola C
Uscite:	1 passante 1 controllata

SPECIFICATIONS	
Model:	Valve body C
Outlets:	1 free 1 controlled



D

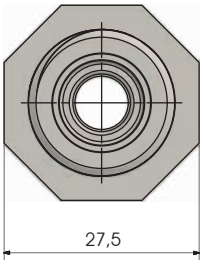
CARATTERISTICHE	
Modello:	Corpo valvola D
Uscita:	1 passante

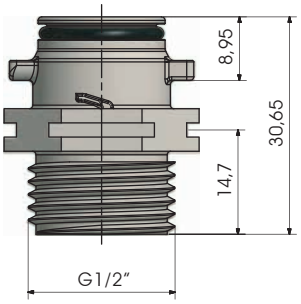
SPECIFICATIONS	
Model:	Valve body D
Outlet:	1 free

Serie R - Universale - Connessioni

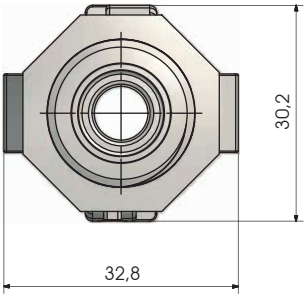
R Series - Universal - Connections

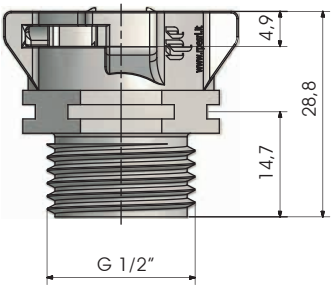
1/2" M IN





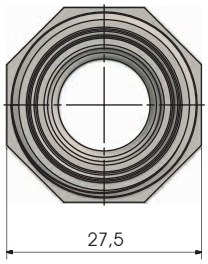
1/2" M OUT

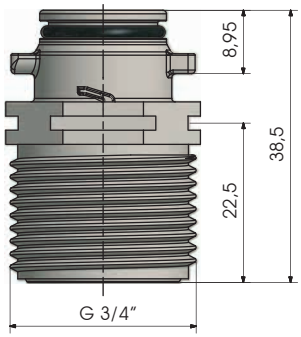




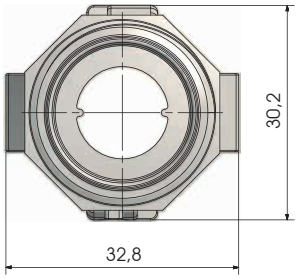
Misure in millimetri - Dimensions in millimeters

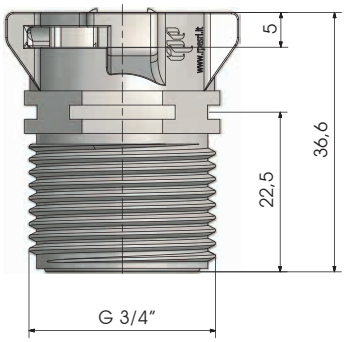
3/4" M IN





3/4" M OUT



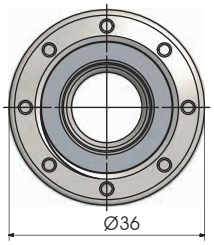


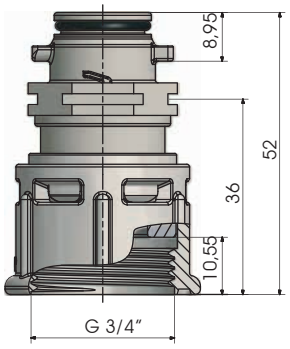
Misure in millimetri - Dimensions in millimeters

Serie R - Universale - Connessioni

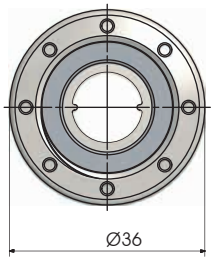
R Series - Universal - Connections

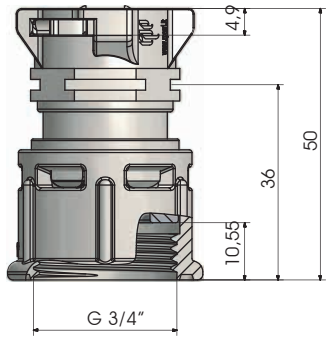
3/4" F IN





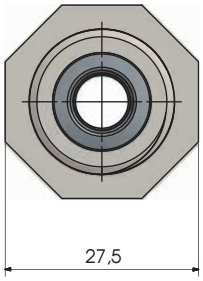
3/4" F OUT

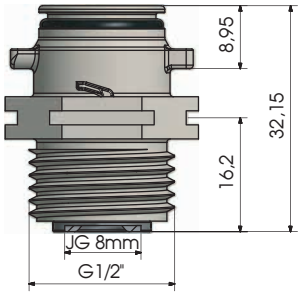




Misure in millimetri - Dimensions in millimeters

JG 8 mm IN





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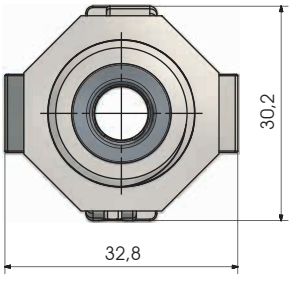
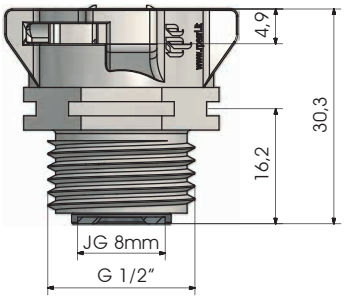


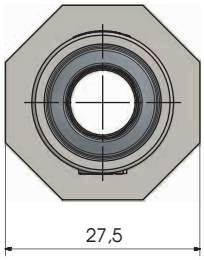


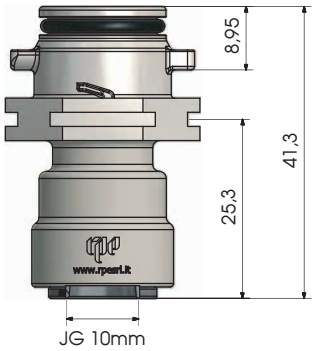
Misure in millimetri - Dimensions in millimeters

Serie R - Universale - Connessioni

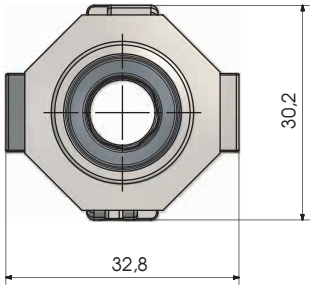
R Series - Universal - Connections

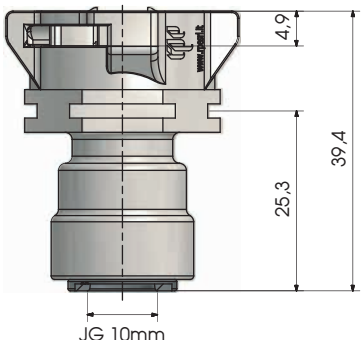
JG 10 mm IN





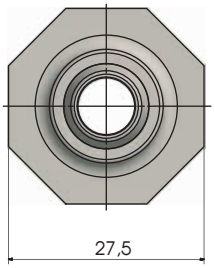
JG 10 mm OUT

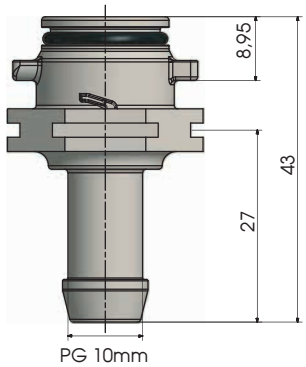




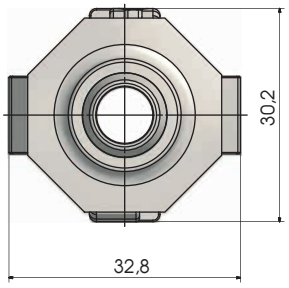
Misure in millimetri - Dimensions in millimeters

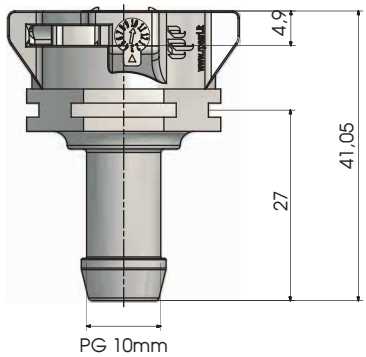
PG 10 mm IN





PG 10 mm OUT



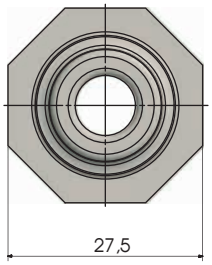


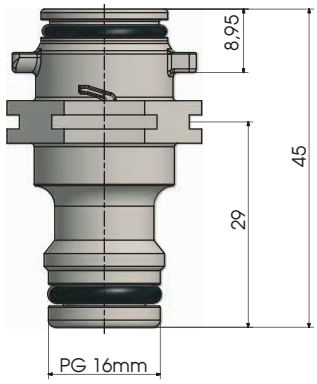
Misure in millimetri - Dimensions in millimeters

Serie R - Universale - Connessioni

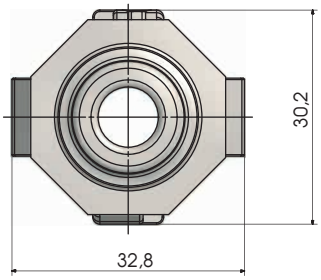
R Series - Universal - Connections

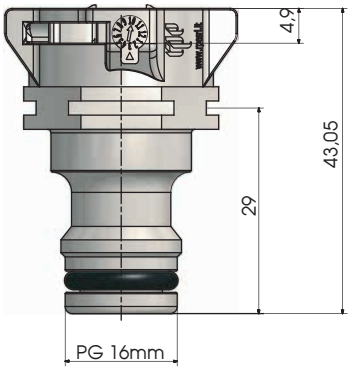
PG 16 mm IN





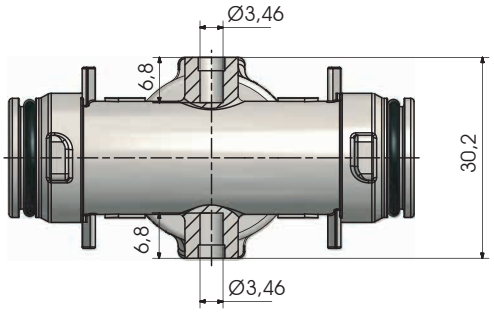
PG 16 mm OUT

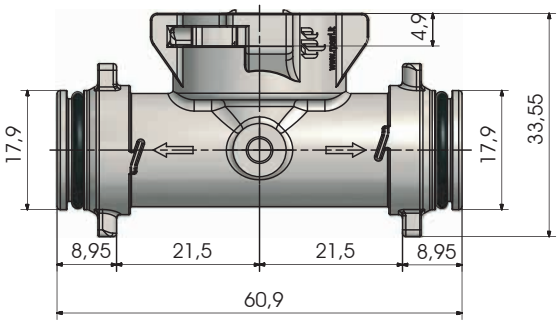




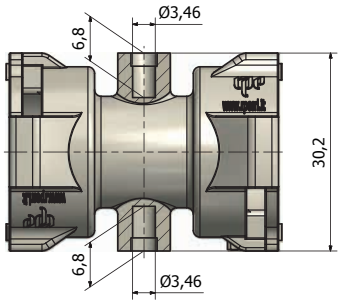
Misure in millimetri - Dimensions in millimeters

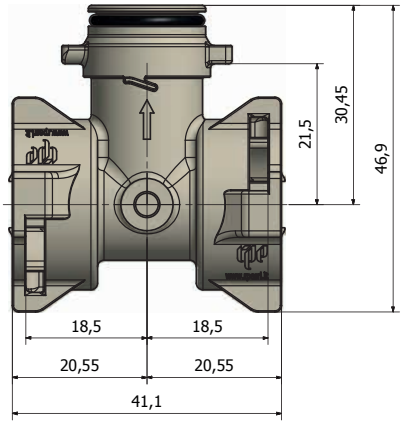
Raccordo a T MFM — T-fitting MFM





Raccordo a T FMF — T-fitting FMF



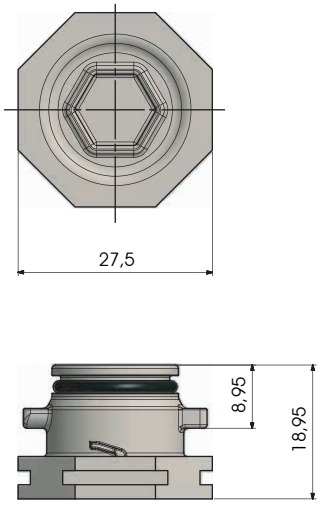


Misure in millimetri - Dimensions in millimeters

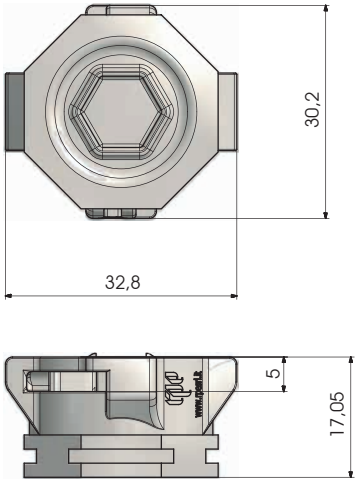
Serie R - Universale - Connessioni

R Series - Universal - Connections

Tappo IN — Cap IN

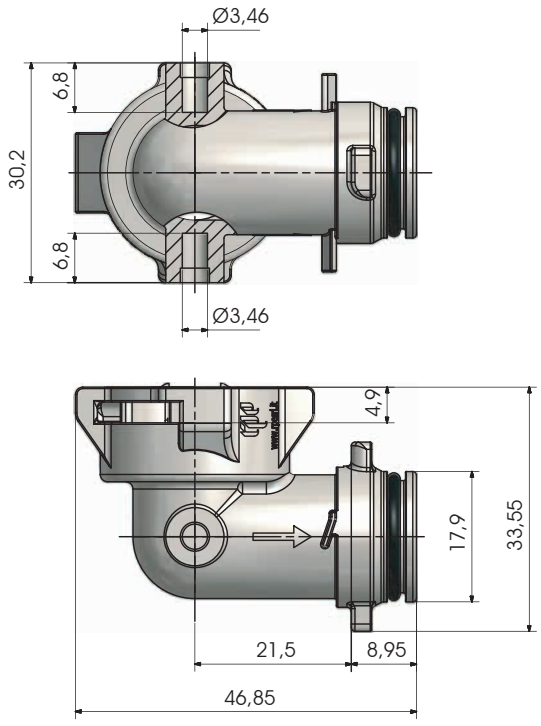


Tappo OUT — Cap OUT

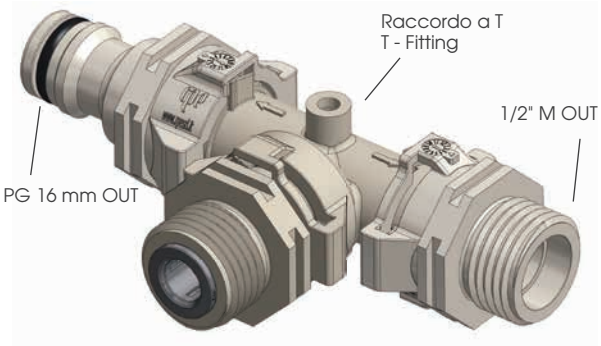


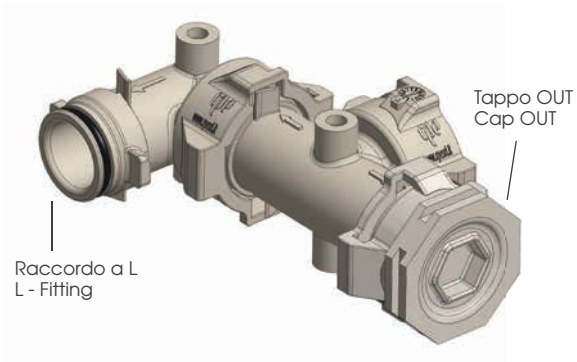
Misure in millimetri - Dimensions in millimeters

Raccordo a L — L-fitting



Esempio di connessioni assemblate — Example of fittings assembled





Misure in millimetri - Dimensions in millimeters

Serie R - Universale - Solenoide

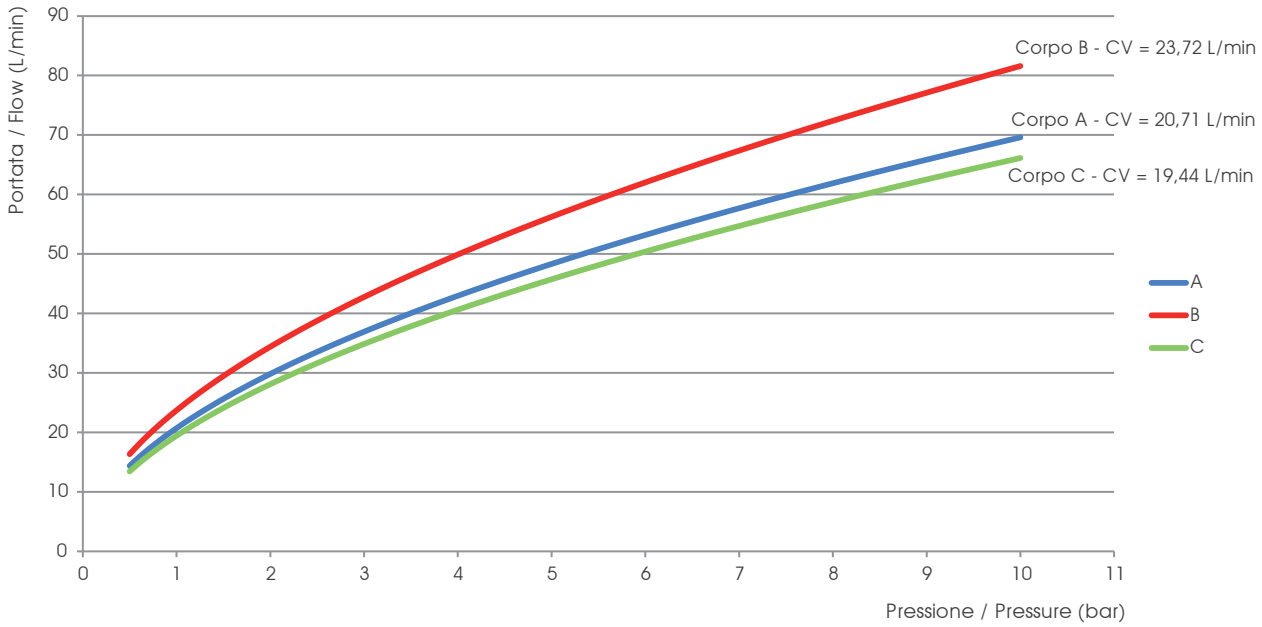
CARATTERISTICHE

Modello:	Corpo + Bobina
Membrana:	NBR; LSR; EPDM
Puntalino e OR:	NBR; LSR
Bobine:	Classe F (155°)
Comando:	NC; NA; Bistabile
Conn. elettriche:	Faston 6,3 x 0,8 mm Cavi unip. max 5000 mm Cavi bipolari max 5000 mm

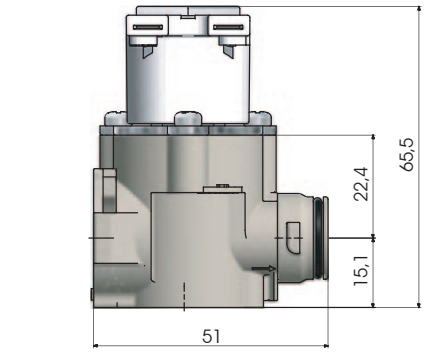
SPECIFICATIONS

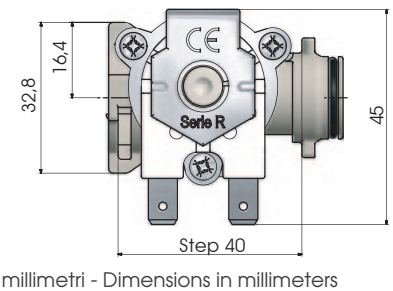
Model:	Body + Coil
Diaphragm:	NBR; LSR; EPDM
Corepin e OR:	NBR; LSR
Coils:	F Class (155°)
Control:	NC; NO; Latching
Electrical conn.:	Faston 6,3 x 0,8 mm Unipolar wires max 5000 mm Bipolar wires max 5000 mm

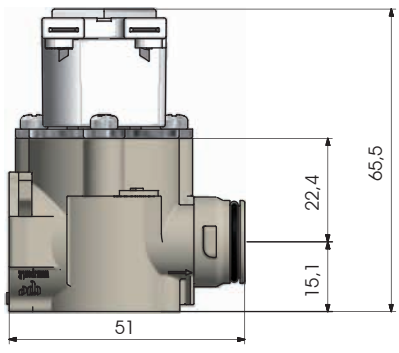
GRAFICO PORTATE / FLOW RATES CHART

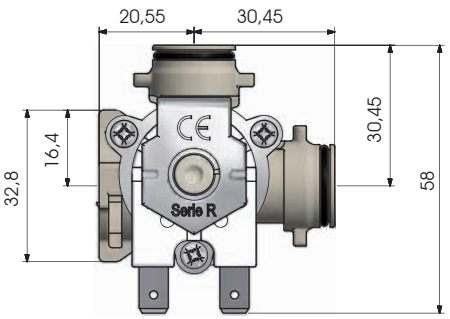


Corpo + Bobina — Body + Coil









Misure in millimetri - Dimensions in millimeters

Serie R - Universale - Solenoidi

R Series - Universal - Solenoids

			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	cosφ	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 (15 ms)	/	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%			Enec	✓	✓

(*) Materiali approvati UL / UL approved materials.

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

(***) I cavi unipolari e bipolari non sono disponibili per le valvole della Serie R Doppia, Tripla e Quadrupla
Unipolar and bipolar wires are not available for R Series Double, Triple and Quadruple.

(****) Bobina trattata con impregnazione / Coated solenoid

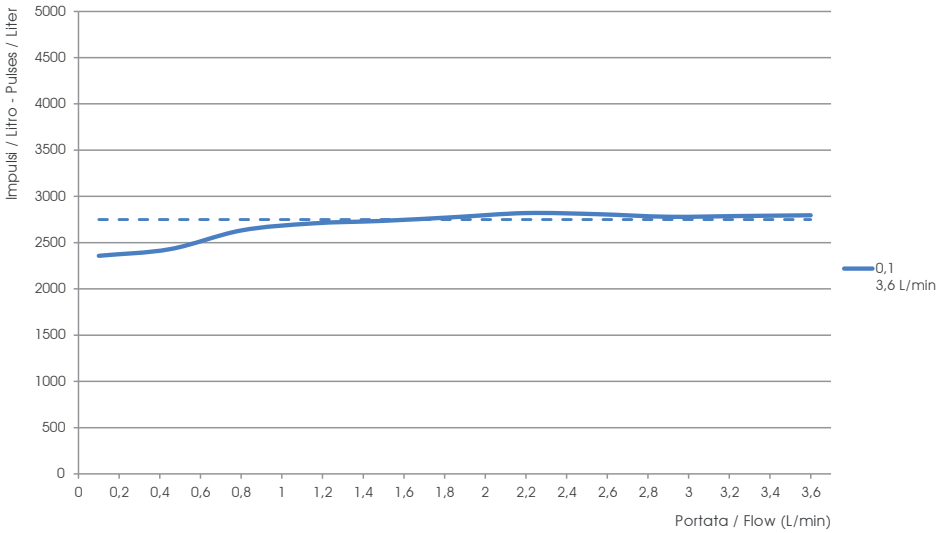
Corpo valvola + Contalitri

Valve body + Flow meter

CARATTERISTICHE	
Modello:	Corpo + Contalitri
Portate:	0,1 - 3,6 L/min 0,5 - 7 L/min

SPECIFICATIONS	
Model:	Valve body + Flow meter
Flow rates:	0,1 - 3,6 L/min 0,5 - 7 L/min

GRAFICO PORTATA 0,1 - 3,6 L/MIN / FLOW RATE CHART 0,1 - 3,6 L/MIN



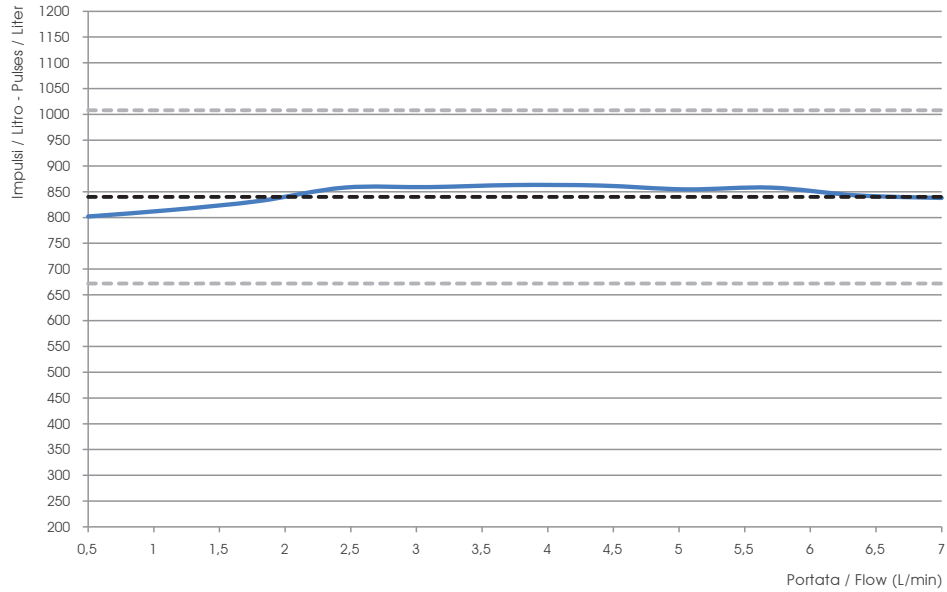
PERFORMANCE

Impulsi / litro nominali: 2750
Tolleranza: ± 15 %
N° magneti: 2
Senza ByPass

PERFORMANCE

Nominal pulse / liter: 2750
Tolerance: ± 15 %
Magnet No.: 2
No ByPass

GRAFICO PORTATA 0,5 - 7 L/MIN / FLOW RATE CHART 0,5 - 7 L/MIN



PERFORMANCE

Impulsi / litro nominali: 840
Tolleranza: ± 20 %
N° magneti: 1
Senza ByPass

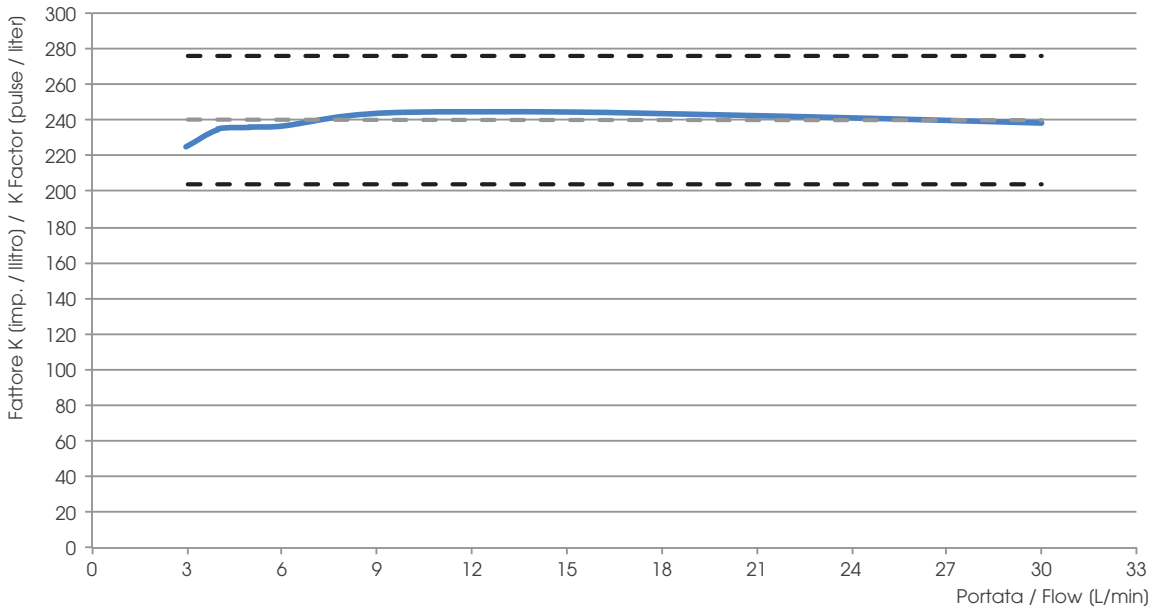
PERFORMANCE

Nominal pulse / liter: 840
Tolerance: ± 20 %
Magnet No.: 1
No ByPass

Corpo valvola + Contalitri

Valve body + Flow meter

GRAFICO PORTATA 3-30 L/MIN HALL — HALL FLOW RATE CHART 3-30 L/MIN



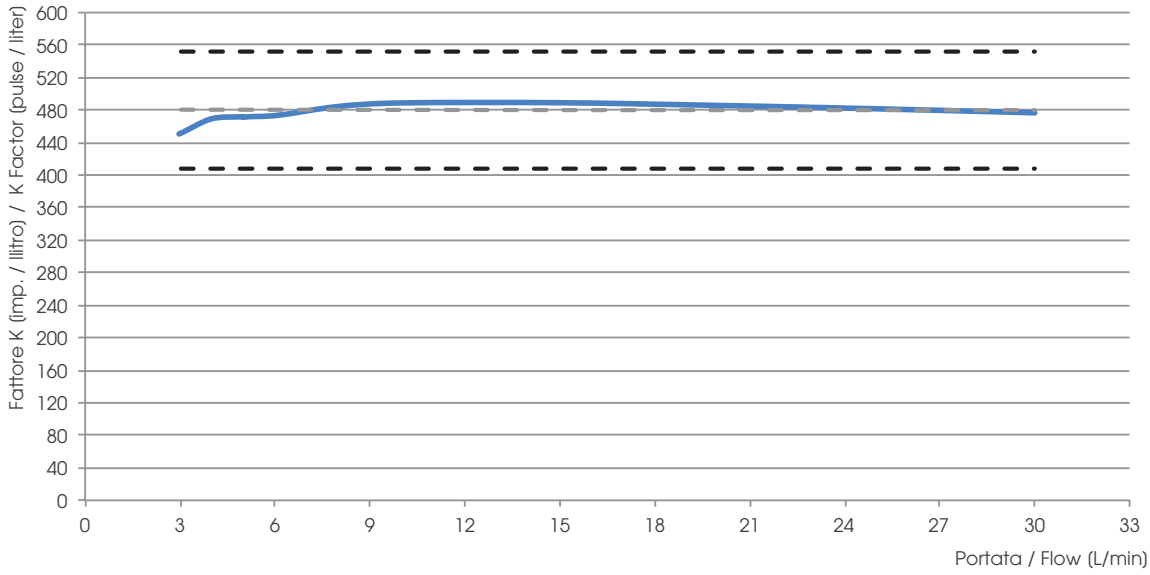
PERFORMANCE

Impulsi / litro nominali: 240
Tolleranza: ± 15 %
N° magneti: 2
Senza ByPass

PERFORMANCE

Nominal pulse / liter: 240
Tolerance: ± 15 %
Magnet No.: 2
No ByPass

GRAFICO PORTATA 3-30 L/MIN REED — REED FLOW RATE CHART 3-30 L/MIN



PERFORMANCE

Impulsi / litro nominali: 480
Tolleranza: ± 15 %
N° magneti: 2
Senza ByPass

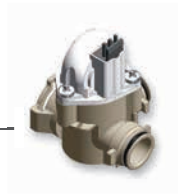
PERFORMANCE

Nominal pulse / liter: 480
Tolerance: ± 15 %
Magnet No.: 2
No ByPass

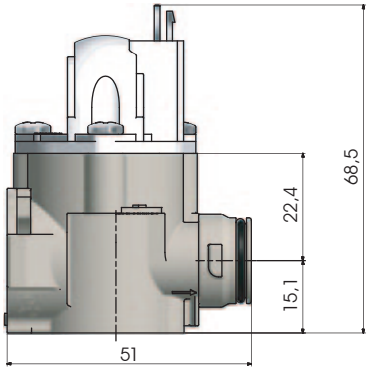
Misure in millimetri - Dimensions in millimeters

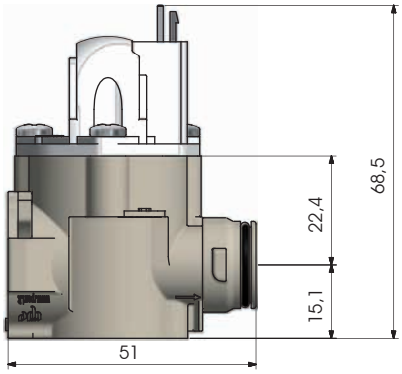
Corpo valvola + Contalitri

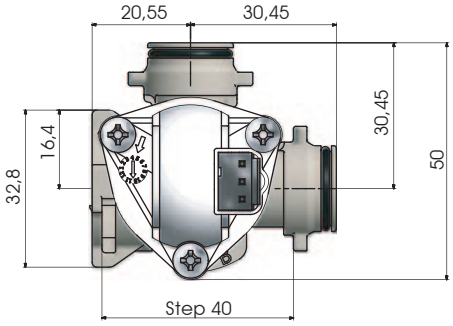
Valve body + Flow meter

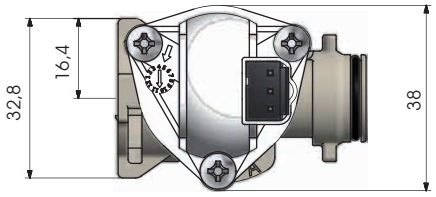


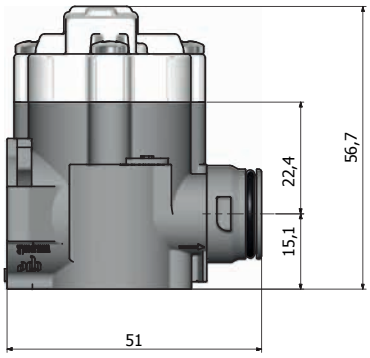
Corpo + Contalitri Body + Flow meter

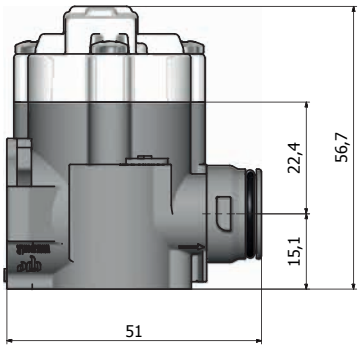


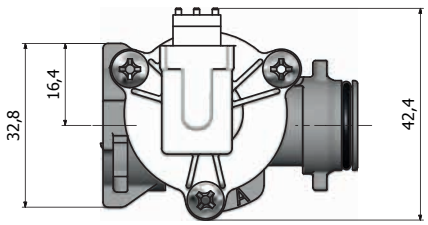


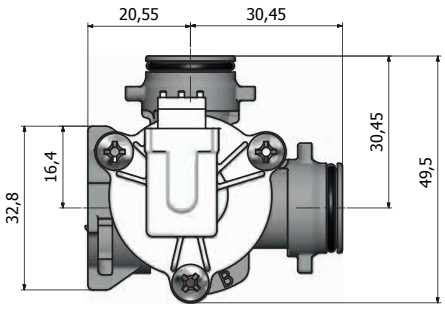






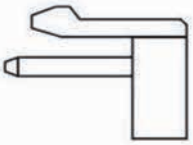


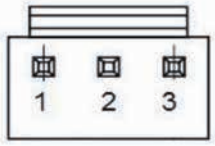




Corpo valvola + Contalitri

Valve body + Flow meter





CONNESSIONI ELETTRICHE

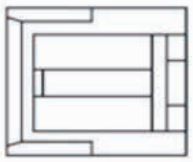
Sensore HALL

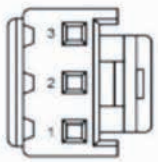
Tipo di uscita:	Collettore aperto NPN
Tensione:	5 - 28 Vcc
Corrente:	Massima 10 mA
Connessione:	Connettore tripolare maschio (nero)
Tipo connettore:	JST B3P-VH-BK (3 poli/p. 3,96) pin 1 = uscita pin 2 = negativo (-) pin 3 = positivo (+)

ELECTRICAL CONNECTIONS

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 (+)



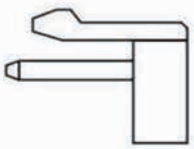


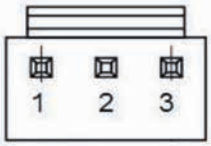
Sensore HALL

Connessione:	Cavo con connettore tripolare femmina (rosso)
Lunghezza cavo:	0,31m / 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:	0,31m / 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

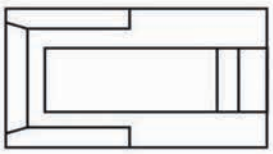
Sensore REED

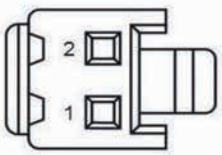
Tipo di uscita:	Contatto NA
Tensione:	5 - 28 Vcc
Corrente:	Massima 500 mA
Connessione:	Connettore tripolare maschio (bianco)
Tipo connettore:	JST B3P-VH (3poli/p.3,96) pin 1 = contatto pin 2 = libero (nc) pin 3 = contatto

ELECTRICAL CONNECTIONS

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:	0,195m / 1m / 2,8m
Tipo connettore:	JST VHR-2N (2 poli/p. 3,96) pin 1 = contatto (cavo marrone) pin 2 = contatto (cavo bianco)

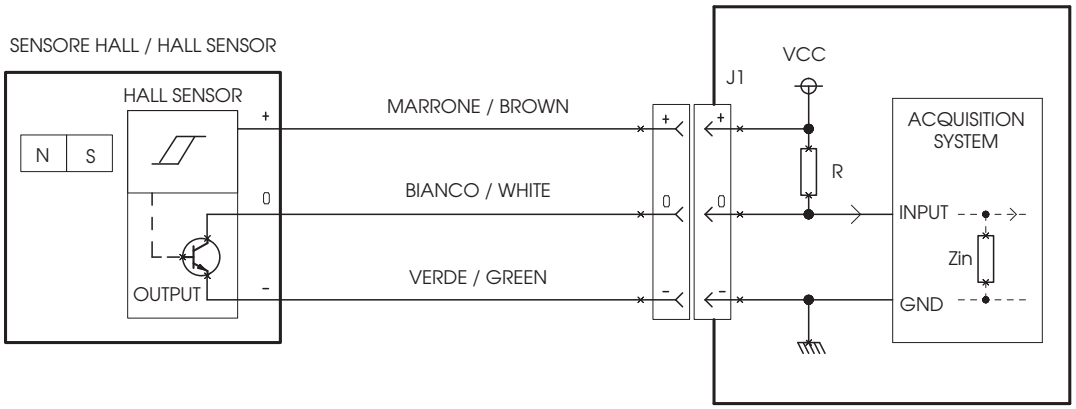
REED sensor

Connection:	Cable with bipolar female connector (white)
Cable length:	0,195m / 1m / 2,8m
Connector type:	JST VHR-2N (2 pin/p. 3,96) pin 1 = contact (brown wire) pin 2 = contact (white wire)

Corpo valvola + Contalitri

Valve body + Flow meter

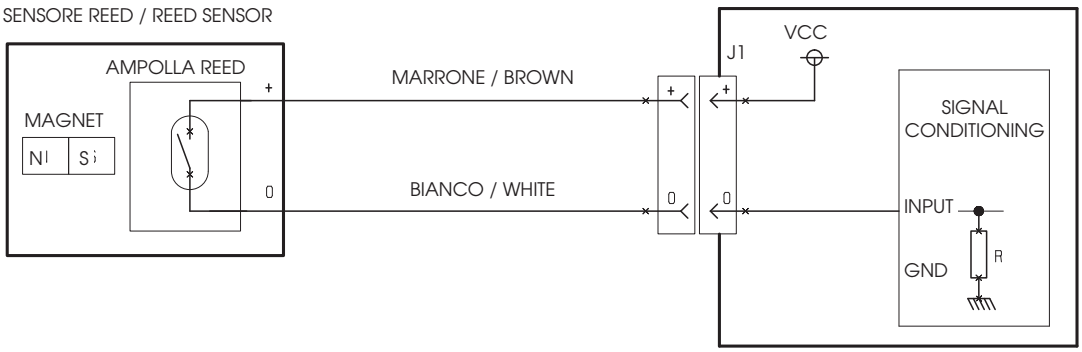
Sensore HALL — HALL Sensor



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

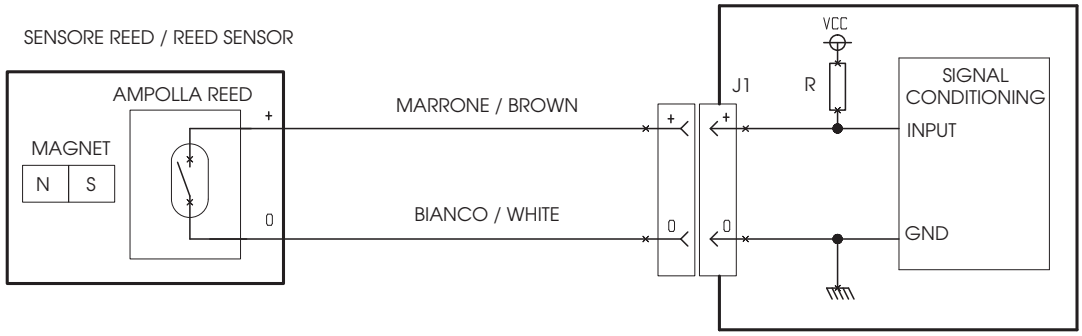
Alimentazione VCC:	5 - 28 VCC
Corrente di carico:	0,05 mA @ 3 mA (tipico)
Resistenza di carico: R =	4,7 Kohm / 0,25 W (tipico A 5 VCC)
Resistenza di carico: R =	10 Kohm / 0,25 W (tipico A 28 VCC)
Resistenza di carico: R =	100 Kohm / 0,25 W (Max)

Sensore REED — REED Sensor



Tipo di uscita: Switch libero da tensione
Corrente di uscita: Max 10 mA
Outlet type: Free switch by voltage
Outlet current: Max 10 mA

Alimentazione VCC:	5 - 28 VCC
Corrente di carico:	0,05 mA @ 3 mA (tipico)
Resistenza di carico: R =	4,7 Kohm / 0,25 W (tipico A 5 VCC)
Resistenza di carico: R =	10 Kohm / 0,25 W (tipico A 28 VCC)
Resistenza di carico: R =	100 Kohm / 0,25 W (Max)



Misure in millimetri - Dimensions in millimeters

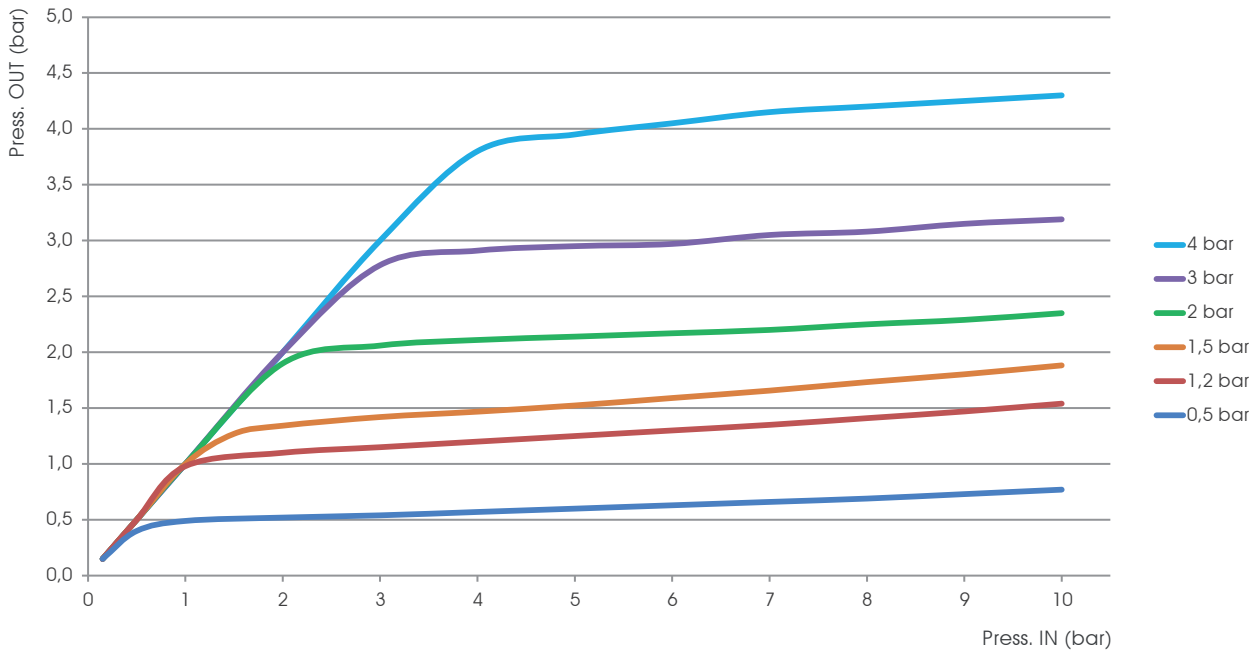
Corpo valvola + Riduttore di pressione

Valve body + Pressure restrictor

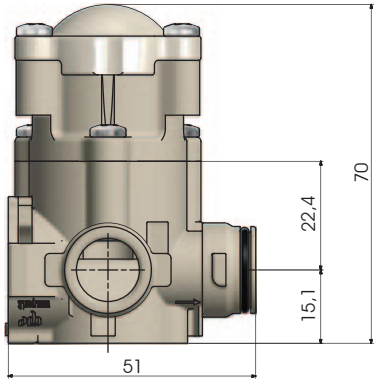
CARATTERISTICHE	
Modello:	Corpo + Rid. di pressione
Riduzione in uscita (fissa):	0,5 bar 1,2 bar 1,5 bar 2 bar 3 bar 4 bar

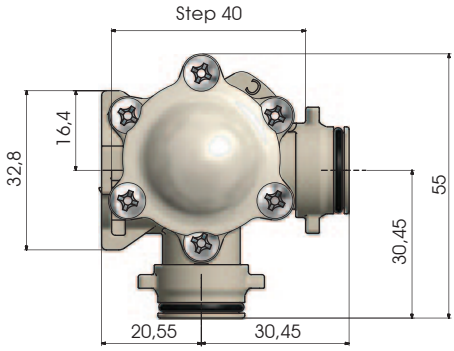
SPECIFICATIONS	
Model:	Valve body + Pressure restrictor
Outlet pressure restrictor (fixed):	0,5 bar 1,2 bar 1,5 bar 2 bar 3 bar 4 bar

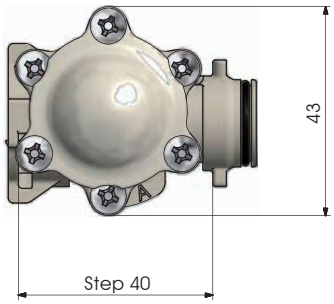
GRAFICO PRESSIONE SERIE R UNIVERSALE / PRESSURE CHART R SERIES UNIVERSAL



Corpo + Rid. di pressione — Body + Pressure restrictor







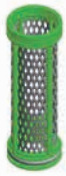
Misure in millimetri - Dimensions in millimeters

Corpo valvola + Filtro

Valve body + Filter

CARATTERISTICHE	
Modello:	Corpo + Filtro
Filtrazione:	131 µ (114 mesh) 168 µ (86 mesh) 237 µ (64 mesh) 307 µ (49 mesh)

SPECIFICATIONS	
Model:	Valve body + Filter
Filtration:	131 µ (114 mesh) 168 µ (86 mesh) 237 µ (64 mesh) 307 µ (49 mesh)



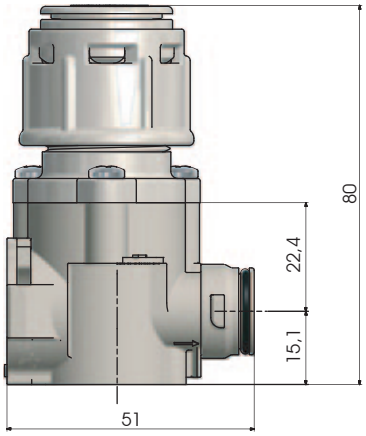
CARATTERISTICHE	
Colore / Color:	Verde / Green
Filtrazione / Filtration:	131 µ (114 mesh)
Approvazione alimentare / Food approval:	Si / Yes

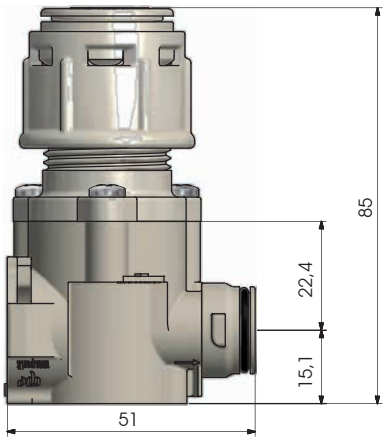
SPECIFICATIONS	
Colore / Color:	Bianco / White
Filtrazione / Filtration:	237 µ (64 mesh)
Approvazione alimentare / Food approval:	Si / Yes

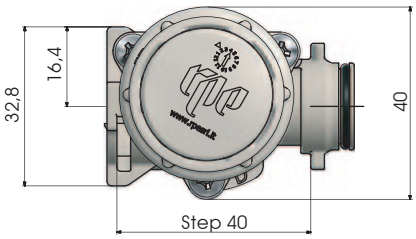
CARATTERISTICHE	
Colore / Color:	Nero / Black
Filtrazione / Filtration:	168 µ (86 mesh)
Approvazione alimentare / Food approval:	Si / Yes

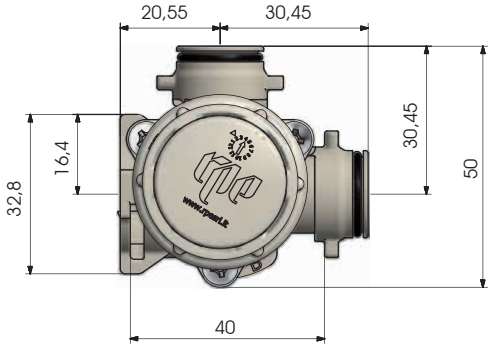
SPECIFICATIONS	
Colore / Color:	Blu / Blue
Filtrazione / Filtration:	307 µ (49 mesh)
Approvazione alimentare / Food approval:	Si / Yes

Corpo + Filtro Body + Filter







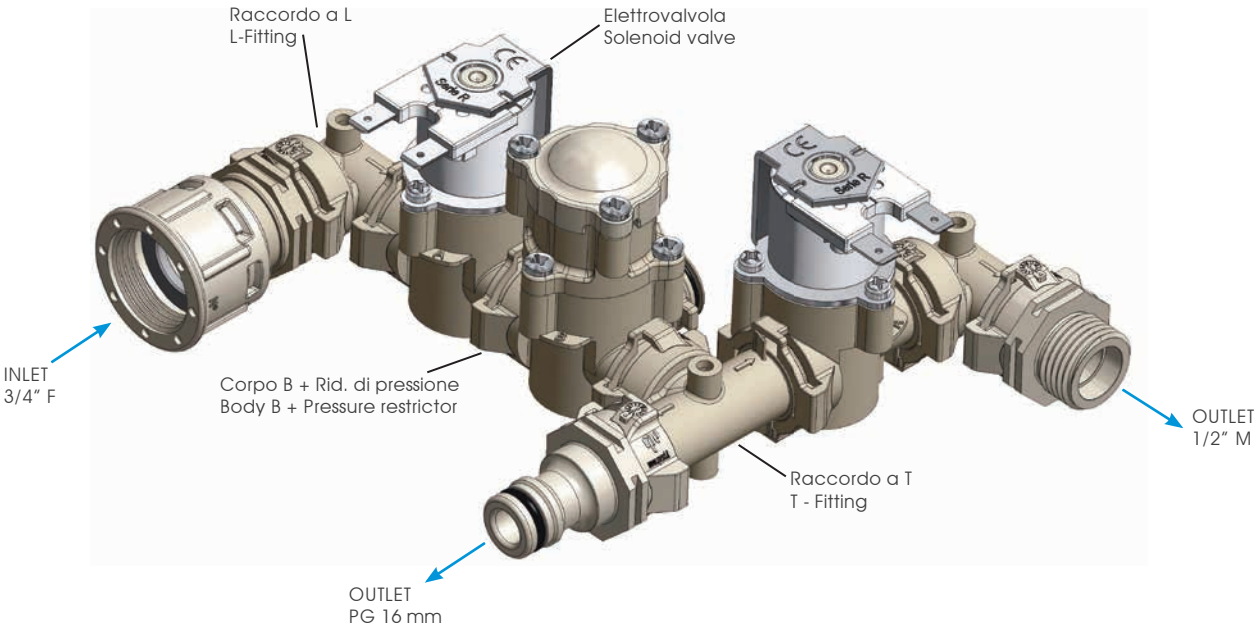


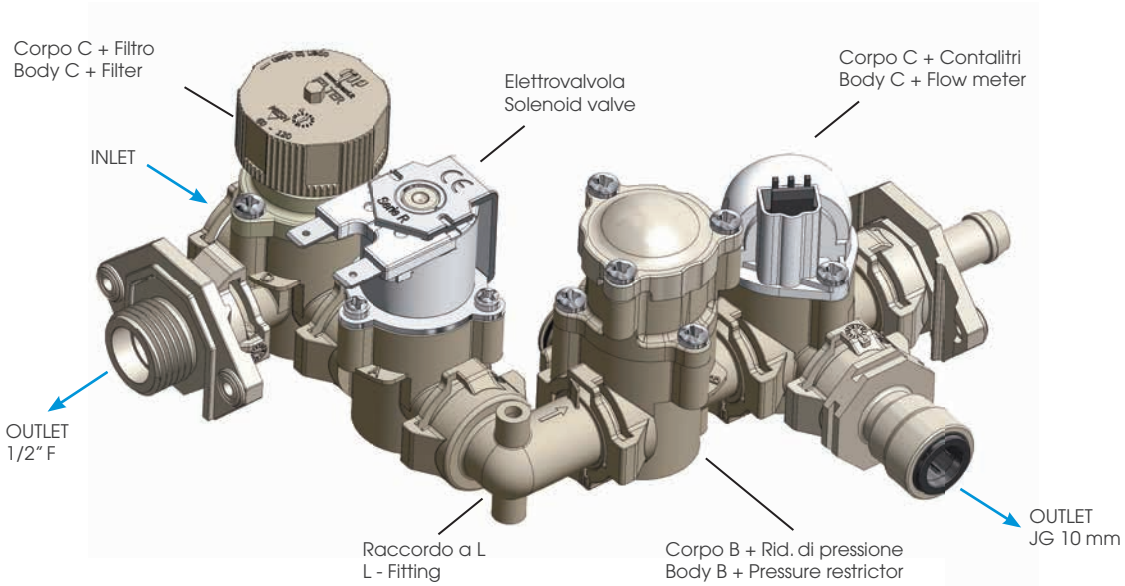
Misure in millimetri - Dimensions in millimeters

Serie R - Universale

R Series - Universal

Serie R Universale assemblata R Series Universal assembled





Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

Nothing great has ever been done without passion

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Serie Micro

Micro Series

CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR
Nucleo:	Acciaio Inox
Molla:	Acciaio Inox
Bobine:	Classe F (155°)

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR
Core:	Stainless steel
Spring:	Stainless steel
Coils:	F class (155°)

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,5 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 90° C - ED 100%
Diametro nominale:	DN 8 mm
Comando:	NC; Bistabile
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0,5 - 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 90° C - ED 100%
Orifice:	ND 8 mm
Control:	NC; Latching
Fluid direction:	Unidirectional

CONNESSIONI IDRAULICHE

Ingresso:	M24 x 1,5 mm
Uscita:	Sede OR

HYDRAULIC CONNECTIONS

Inlet:	M24 x 1,5 mm
Outlet:	OR seat

CONNESSIONI ELETTRICHE

Cavi unipolari 200 mm
Cavi con connettori IP 68 (150 mm)

ELECTRICAL CONNECTIONS

Unipolar wires 200 mm
Wires with IP 68 connectors (150 mm)

GRADO DI PROTEZIONE

IP 55: Involucro protetto contro la polvere e i getti d'acqua.

PROTECTION DEGREE

IP 55: Wrap protected against dust and water jets.

CERTIFICAZIONI / CERTIFICATIONS

CE NSF KTW W270

Serie Micro

Micro Series

CARATTERISTICHE	
Modello:	3 V Bistabile
Durata impulso:	15 ms
Protezione:	IP 55
Forma impulso:	Onda rettangolare
Potenza (20° C):	1 W
Assorbim. (20° C):	330 mA

SPECIFICATIONS	
Model:	3 V Latching
Timing pulse:	15 ms
Protection:	IP 55
Pulse shape:	Rectangular pulse
Power (20° C):	1 W
Consuption (20° C):	330 mA

CARATTERISTICHE	
Modello:	4,5 V Bistabile
Durata impulso:	15 ms
Protezione:	IP 55
Forma impulso:	Onda rettangolare
Potenza (20° C):	1 W
Assorbim. (20° C):	225 mA

SPECIFICATIONS	
Model:	4,5 V Latching
Timing pulse:	15 ms
Protection:	IP 55
Pulse shape:	Rectangular pulse
Power (20° C):	1 W
Consuption (20° C):	225 mA

CARATTERISTICHE	
Modello:	6 V Bistabile
Durata impulso:	15 ms
Protezione:	IP 55
Forma impulso:	Onda rettangolare
Potenza (20° C):	1 W
Assorbim. (20° C):	165 mA

SPECIFICATIONS	
Model:	6 V Latching
Timing pulse:	15 ms
Protection:	IP 55
Pulse shape:	Rectangular pulse
Power (20° C):	1 W
Consuption (20° C):	165 mA

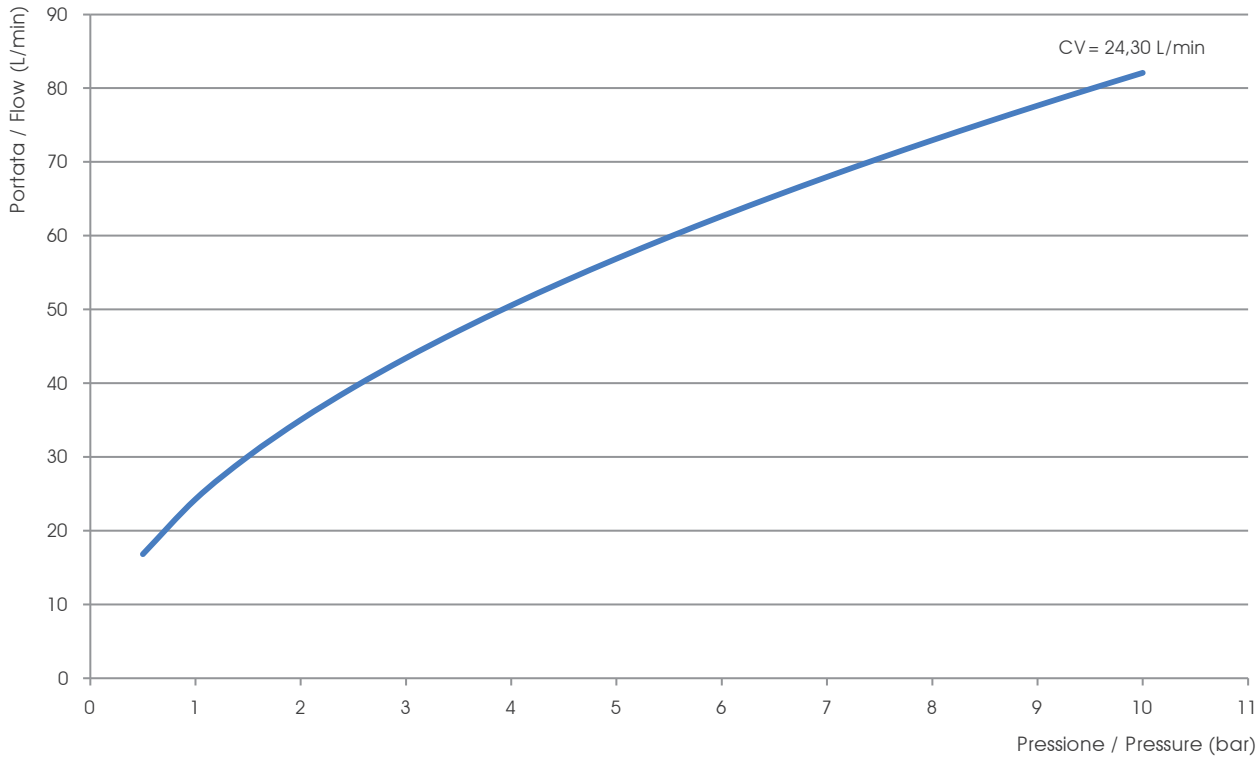
CARATTERISTICHE	
Modello:	12 V NC
Durata impulso:	-
Protezione:	IP 55
Forma impulso:	-
Potenza (20° C):	1,6 W
Assorbim. (20° C):	130 mA

SPECIFICATIONS	
Model:	12 V NC
Timing pulse:	-
Protection:	IP 55
Pulse shape:	-
Power (20° C):	1,6 W
Consuption (20° C):	130 mA

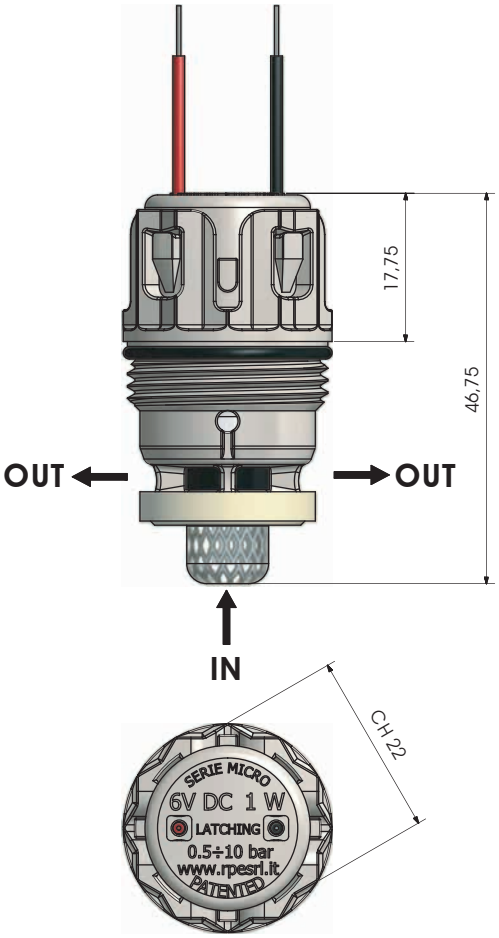
Serie Micro

Micro Series

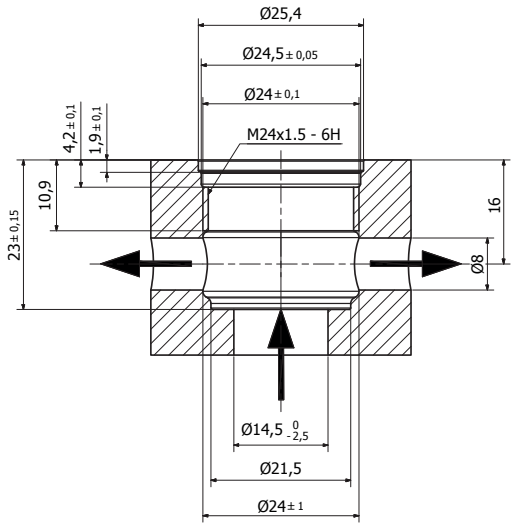
GRAFICO PORTATA SERIE MICRO / FLOW RATE CHART MICRO SERIES



Serie Micro Micro Series



Dettaglio sede Seat detail



Misure in millimetri - Dimensions in millimeters

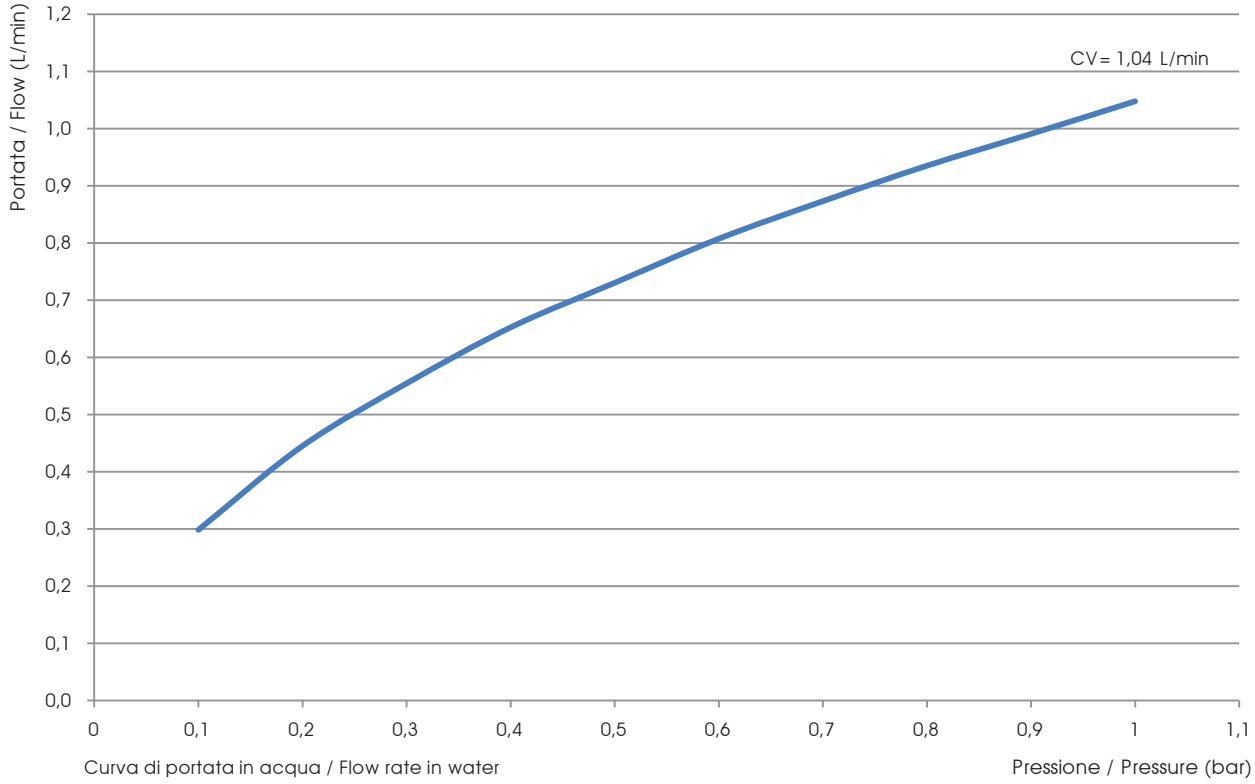
Serie Micro Diretta

Micro Series Direct

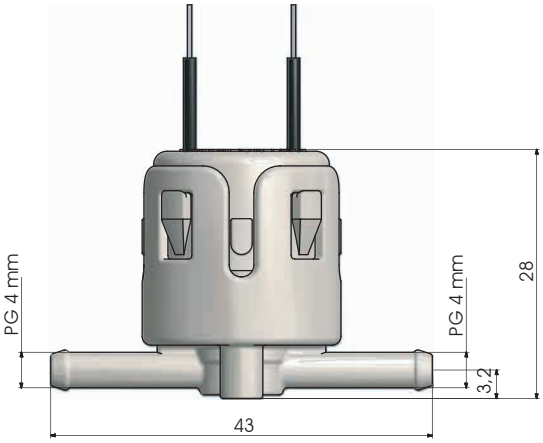
CARATTERISTICHE	
Modello:	12 V NC
Durata impulso:	-
Protezione:	IP 55
Forma impulso:	-
Potenza (20° C):	1,6 W
Assorbim. (20° C):	130 mA
Comando:	Apertura diretta
Press. di esercizio:	0 - 1 bar
Diam. nominale:	DN 1,5 mm

SPECIFICATIONS	
Model:	12 V NC
Timing pulse:	-
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:	ND 1,5 mm

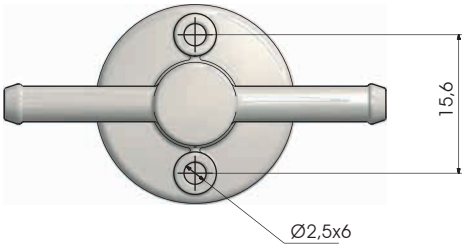
GRAFICO PORTATA SERIE MICRO DIRETTA – FLOW RATE CHART DIRECT MICRO SERIES



Serie Micro 180° Micro Series 180°



Dettaglio fissaggio Fixing detail



Misure in millimetri - Dimensions in millimeters

Serie Micro - Solenoidi

Micro Series - Solenoids

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	✓	

Legenda / Key:

NC: Normalmente Chiusa / Normally Closed

NA: Normalmente Aperta / Normally Open

NB: Bistabile / Latching

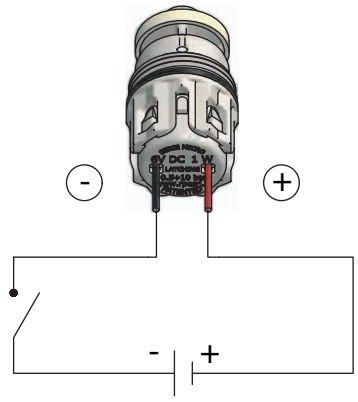
Classe isolamento / Insulation class: II

Classe isolamento bobina / Coil insulation class: F

COMANDO DI APERTURA
opening control

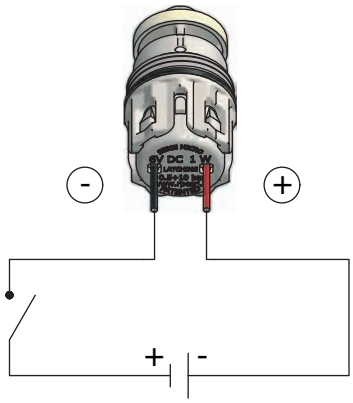
COMANDO DI CHIUSURA
closing control

ON

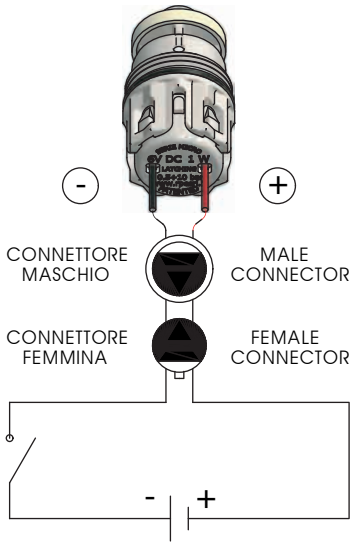


CAVI
Wires

OFF

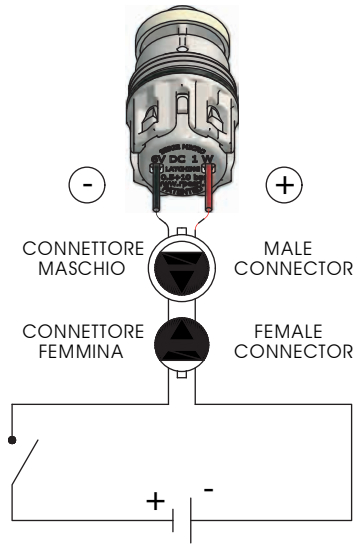


ON

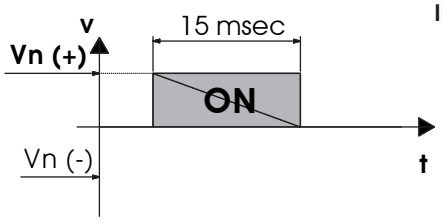


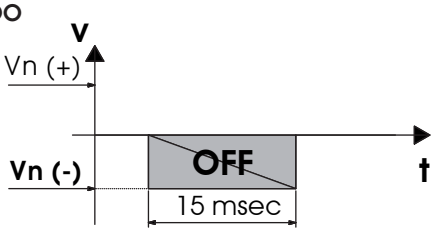
CONNETTORI IP 68
IP 68 connectors

OFF



IMPULSI DI COMANDO
Control impulse





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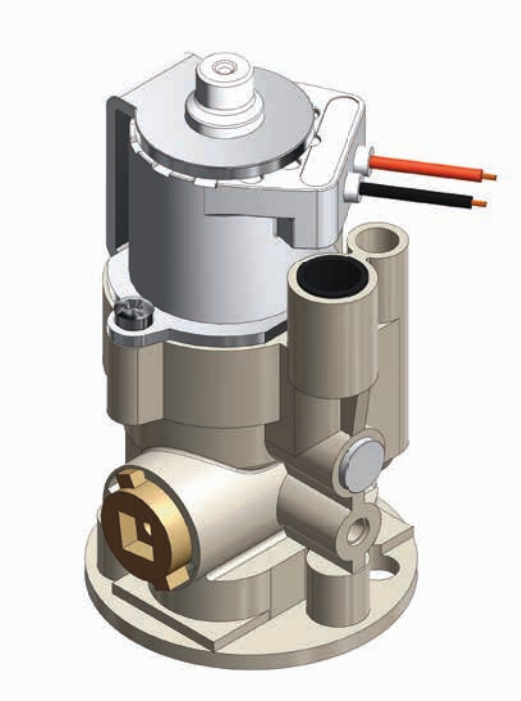
Integrata

Integrated



CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR
Nucleo:	Acciaio Inox
Molla:	Acciaio Inox
Bobine:	Classe F (155°)

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR
Core:	Stainless steel
Spring:	Stainless steel
Coils:	F class (155°)

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,2 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C
Diametro nominale:	DN 5,6 mm
Comando:	Bistabile
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0,2 - 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C
Orifice:	ND 5,6 mm
Control:	Latching
Fluid direction:	Unidirectional

CONNESSIONI ELETTRICHE

Cavi unipolari	300 mm

ELETTRICAL CONNECTIONS

Unipolar wires	300 mm

GAMMA SOLENOIDI

Tensione:	6 V DC
Potenza (20° C):	2,5 W
Assorbimento (20° C):	350 mA
Protezione:	IP 55

SOLENOIDS RANGE

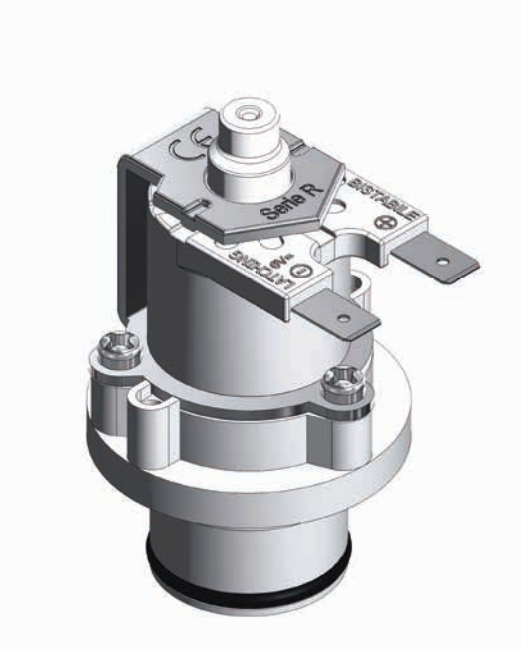
Voltage:	6 V DC
Power (20° C):	2,5 W
Consuption (20° C):	350 mA
Protection:	IP 55

CERTIFICAZIONI / CERTIFICATIONS

DM 174/2001

Termostatica

Thermostatic



CARATTERISTICHE FISICHE

Corpo valvola:	POM
Membrana:	NBR
Nucleo:	Acciaio Inox
Molla:	Acciaio Inox
O-Ring:	NBR
Bobine:	Classe F (155°)

PHYSICAL SPECIFICATIONS

Valve body:	POM
Diaphragm:	NBR
Core:	Stainless steel
Spring:	Stainless steel
O-Ring:	NBR
Coils:	F class (155°)

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,2 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C
Diametro nominale:	DN 11 mm
Comando:	Bistabile; NC
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0,2 - 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C
Orifice:	ND 11 mm
Control:	Latching; NC
Fluid direction:	Unidirectional

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm
Cavi bipolari max 5000 mm

ELETTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires 5000 mm
Bipolar wires 5000 mm

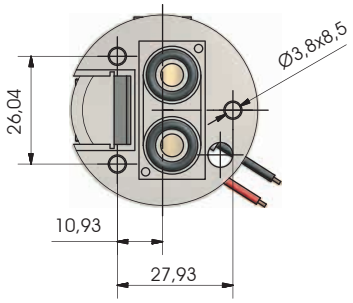
CERTIFICAZIONI / CERTIFICATIONS

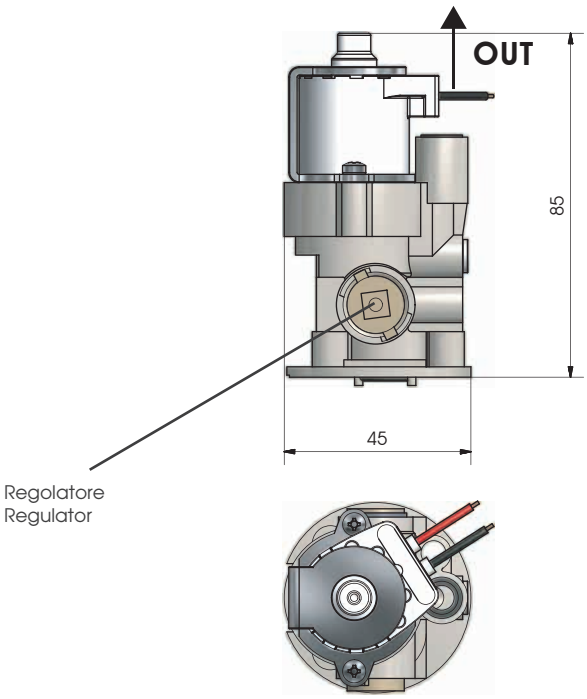
DM 174/2001

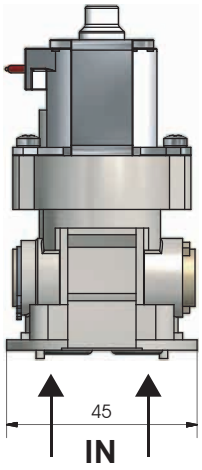
Integrata - Termostatica

Integrated - Thermostatic

Integrata — Integrated

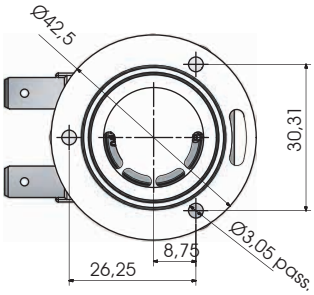


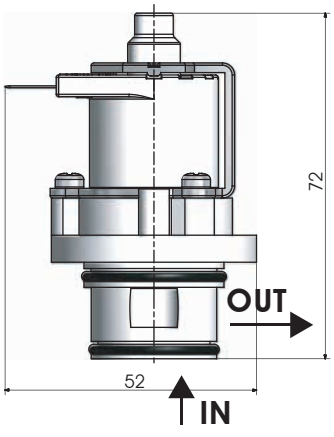


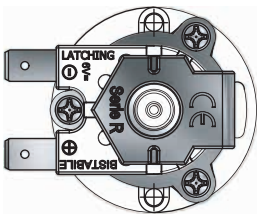


Misure in millimetri - Dimensions in millimeters

Termostatica — Thermostatic







Misure in millimetri - Dimensions in millimeters

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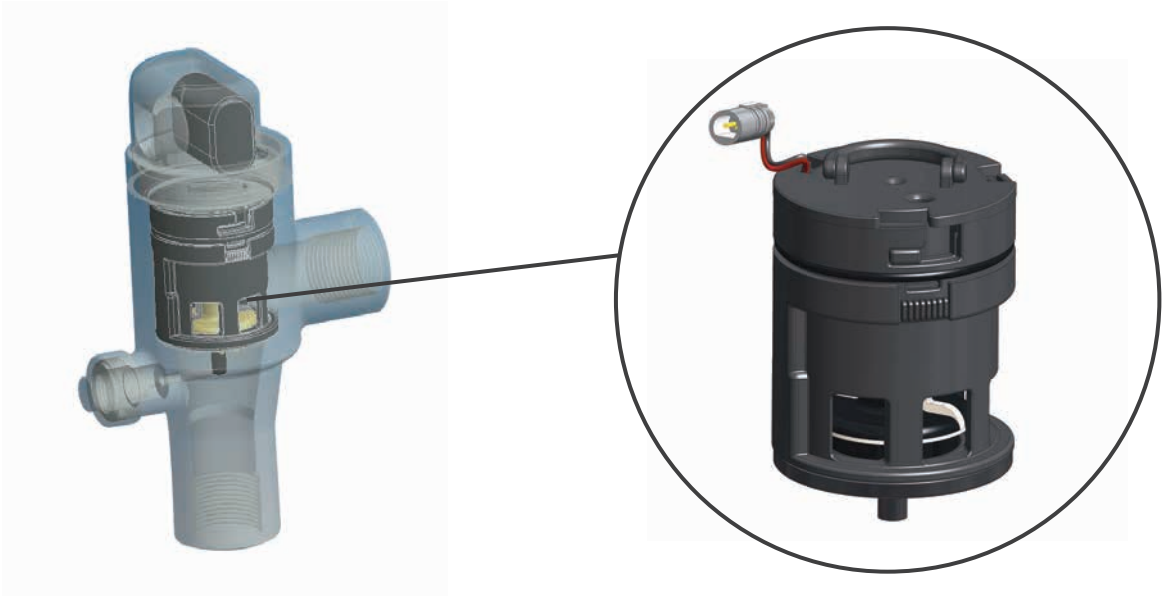
Cartuccia di scarico

Flush valve cartridge



CARATTERISTICHE FISICHE

Corpo valvola:	PPH - 30% FV
Tenute:	NBR; TPE
Molle:	Acciaio Inox

PHYSICAL SPECIFICATIONS

Valve body:	PPH - 30% GF
Seals:	NBR; TPE
Springs:	Stainless steel

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,5 - 8 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C
Comando:	Bistabile / Manuale
Direzione del fluido:	Unidirezionale
Diametro nominale:	DN 32 mm
Portata minima:	72 L/min
Tensione:	6V Bistabile

WORKING SPECIFICATIONS

Working pressure:	0,5 - 8 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C
Control:	Latching / Manual
Fluid direction:	Unidirectional
Orifice:	ND 32 mm
Minimum flow rate:	72 L/min
Voltage:	6V Latching

CONNESSIONI ELETTRICHE

Connettore IP68 Maschio

ELECTRICAL CONNECTIONS

IP68 male connector

APPLICAZIONI

Scarico acqua per orinatoi e servizi igenici

APPLICATIONS

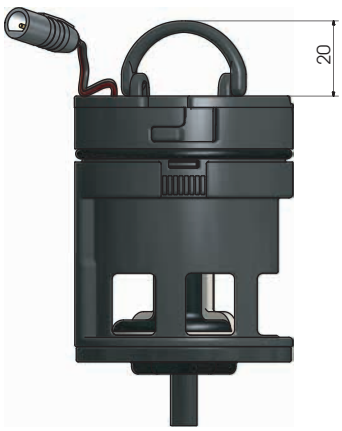
Discharge water urinal and toilet

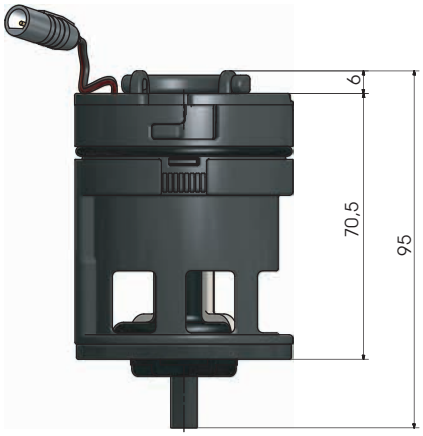
Cartuccia di scarico

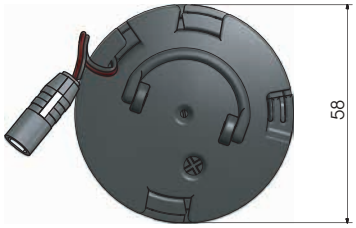
Flush valve cartridge

Assemblaggio semplice Easy assembly

Cartuccia di scarico Flush valve cartridge





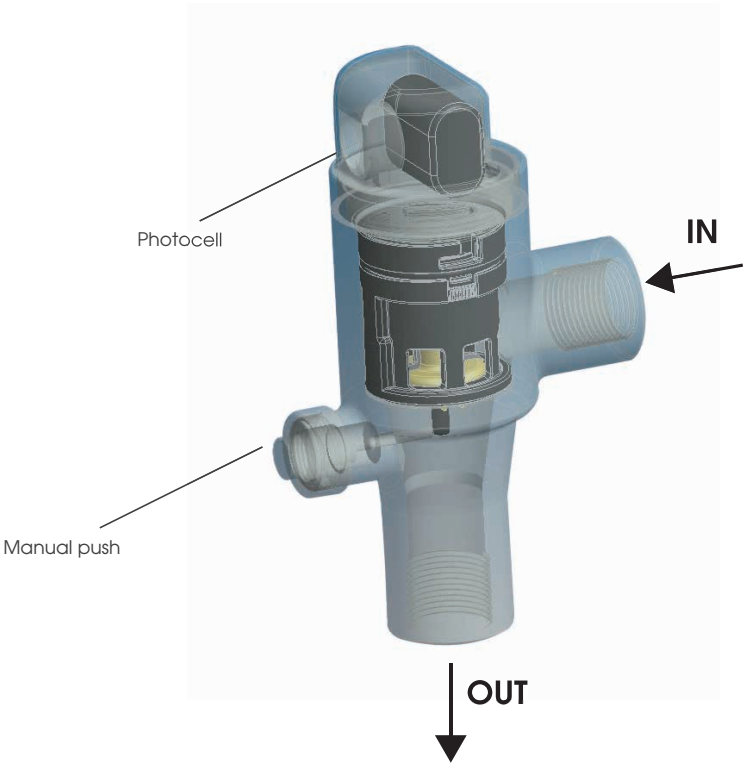


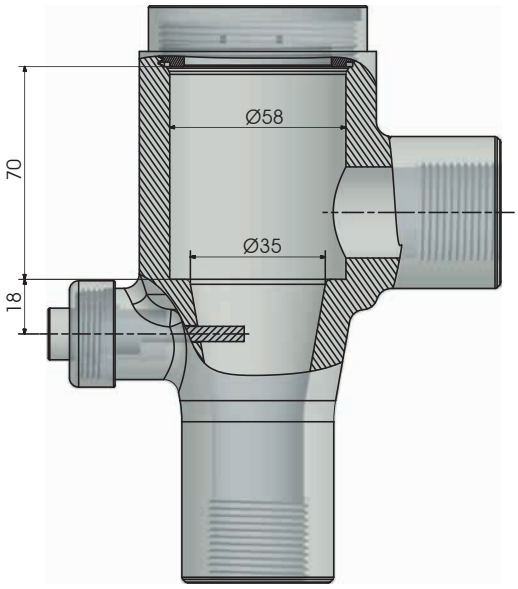
Misure in millimetri - Dimensions in millimeters

Cartuccia di scarico

Flush valve cartridge

Dettaglio sede Seat detail





Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

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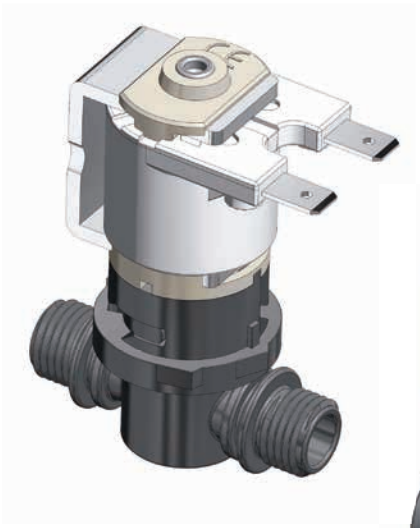
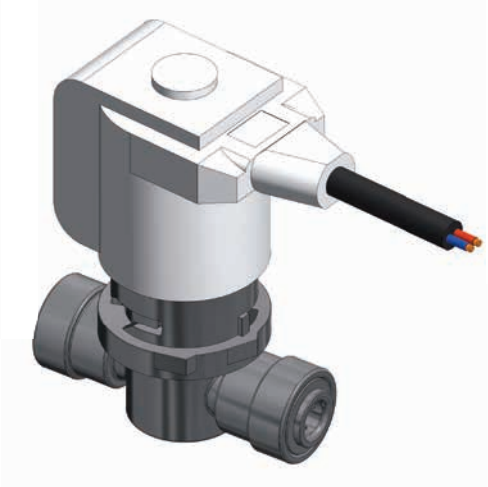
Serie 700

700 Series





CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Puntalino:	NBR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Baionetta

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Core pin:	NBR
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	Bayonet

CARATTERISTICHE DI LAVORO

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
Temperatura fluido:	Tm 65° C - ED 100%
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale
CV:	Vedi pagina successiva

WORKING SPECIFICATIONS

Working pressure:	0 - 4 bar (ND 3 mm) 0 - 6 bar (ND 2,2 mm) 0 - 10 bar (ND 1,6 mm)
Room temperature:	Tu 60° C
Fluid temperature:	Tm 65° C - ED 100%
Control:	NC; NO; Latching
Fluid direction:	Unidirectional
CV:	See next page

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm
Cavi bipolari max 5000 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 5000 mm
Bipolar wires max 5000 mm

CERTIFICAZIONI / CERTIFICATIONS

Serie 700

700 Series

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

Legenda / Key: JG = Attacco rapido / Quick coupling

Dettagli di fissaggio — Fixing details

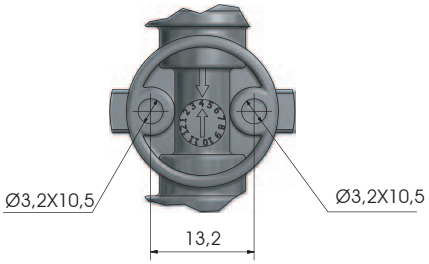
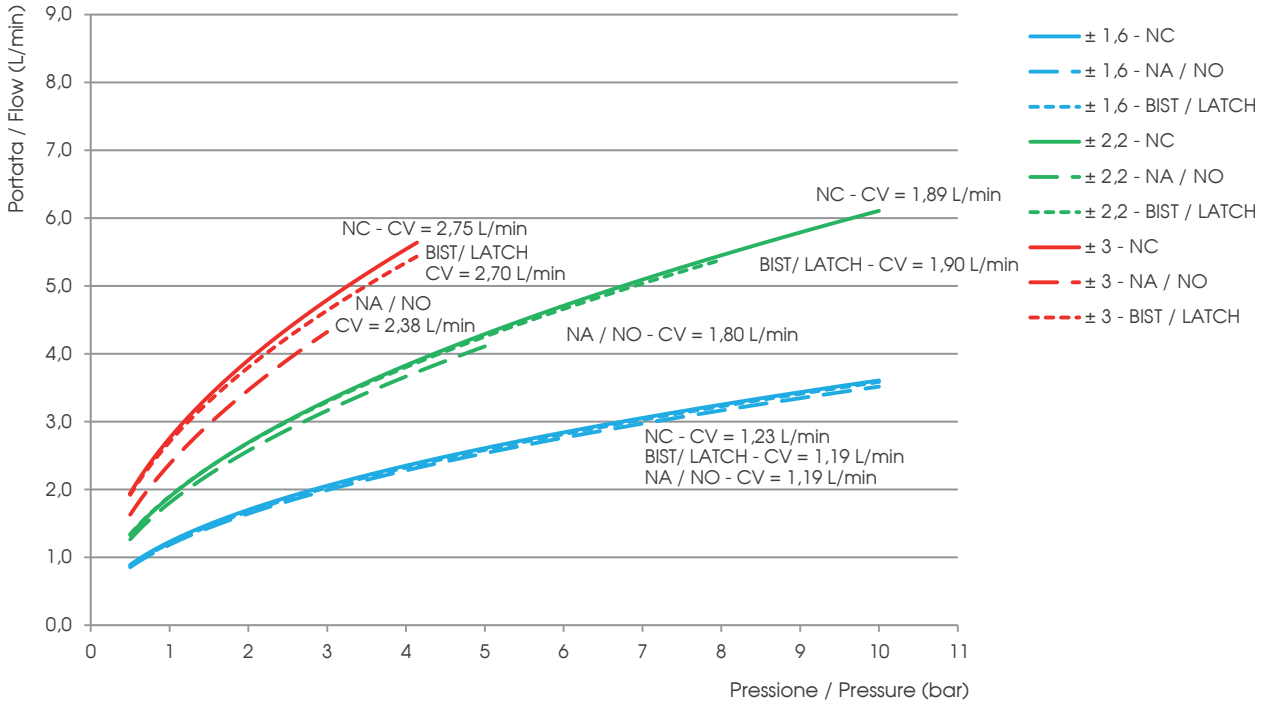


GRAFICO PORTATE SERIE 700 / FLOW RATES CHART 700 SERIES



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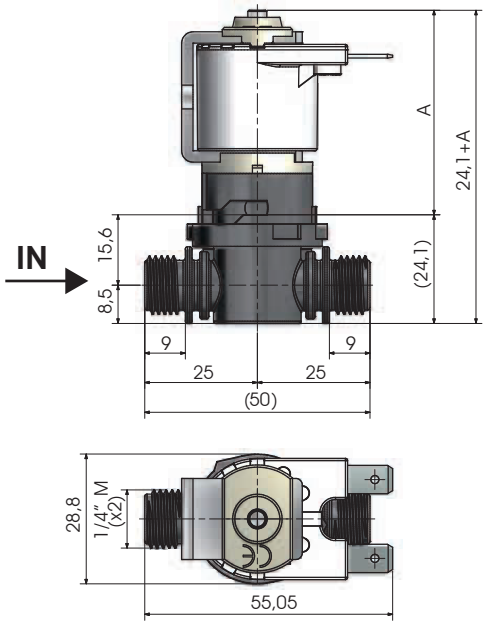

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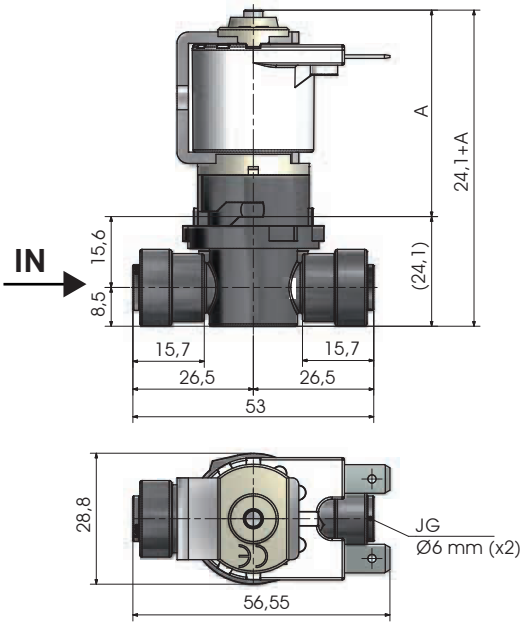

Serie 700 - Solenoidi

700 Series - Solenoids

			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**	**cosφ**	**ED (funzionamento) (duty cycle)**	**Faston(F), Cavi Unipolari (C) / wires**	**Cavi bipolari wires (in mm)**	**Approvazioni Approvals**	**NC**	**NA** (NO)**
1a	12 V AC	50 HZ 60 HZ	2,95 VA 2,50 VA	5,5 VA 5,0 VA	245 mA 210 mA	460 mA 420 mA	0,61 0,6	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 DC	=	6,40 W	/	265 mA	/	/	100%	F, C	1000, 1450, 2500		✓	✓
5	L9 DC	=	5 W	/	560 mA	/	/	LATCHING	F, C	2500			
6	110V 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, 2500		✓	✓
7	230V 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	240V 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		✓	✓

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

Legenda / Key:
NC: Normalmente Chiusa / Normally Closed
NA: Normalmente Aperta / Normally Open
NB: Bistabile / Latching
GW: Glow Wire

ED Funzionamento / Duty Cycle = 100%
Faston: IP X0
Cavi / Wires: IP 55

Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil insulation class: F
Tipo faston / Faston type: 6,3 × 0,8 mm

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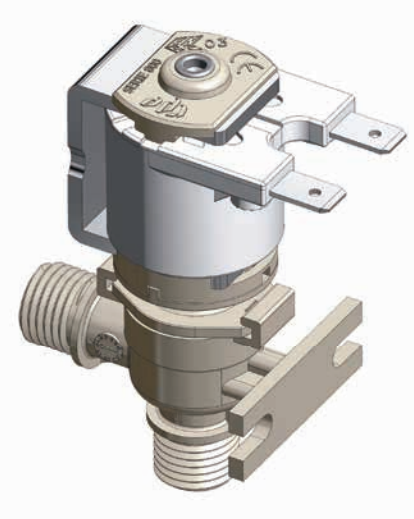
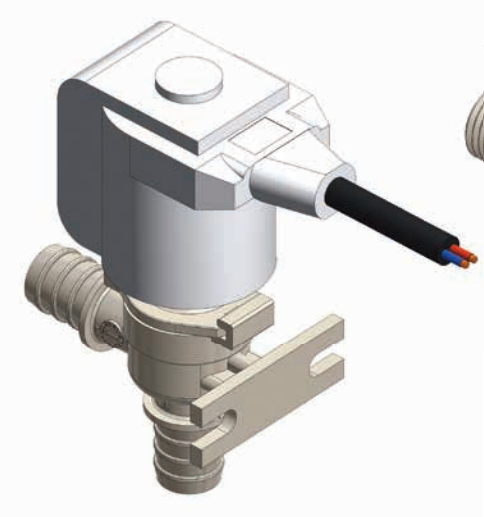
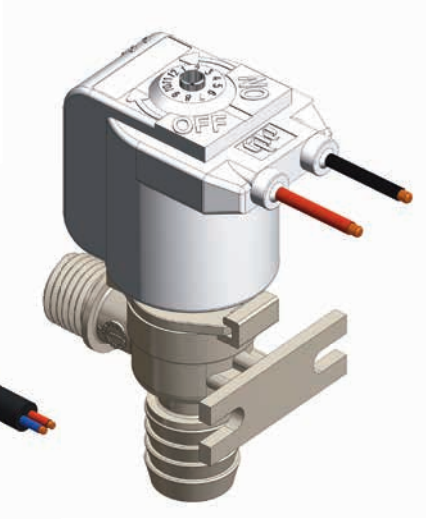
Serie 800

800 Series







CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR; Silicone (MVQ); EPDM; Viton
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Baionetta

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR; Silicone (MVQ); EPDM; Viton
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	Bayonet

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 - 0,5 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 90° C - ED 100%
Diametro nominale:	DN 2 - 3 - 7 - 8 mm
Comando:	NC; Bistabile
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0 - 0,5 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 90° C - ED 100%
Orifice:	ND 2 - 3 - 7 - 8 mm
Control:	NC; Latching
Fluid direction:	Unidirectional

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm
Cavi bipolari max 5000 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 5000 mm
Bipolar wires max 5000 mm

CERTIFICAZIONI / CERTIFICATIONS

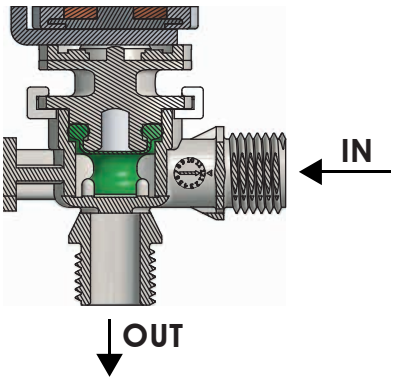
Serie 800

800 Series

Modello Model	IN	OUT	M.O.Q. (pcs)
803	1/4" M	1/4" M	200
805	PG 10 mm	1/4" M	200
806	PG 10 mm	PG 10 mm	200
804	1/4" M	PG 10 mm	200
807	1/4" M	PG 16 mm	200

Legenda / Key: PG = Portagomma / Hose tail

Separazione dei fluidi Medium separation



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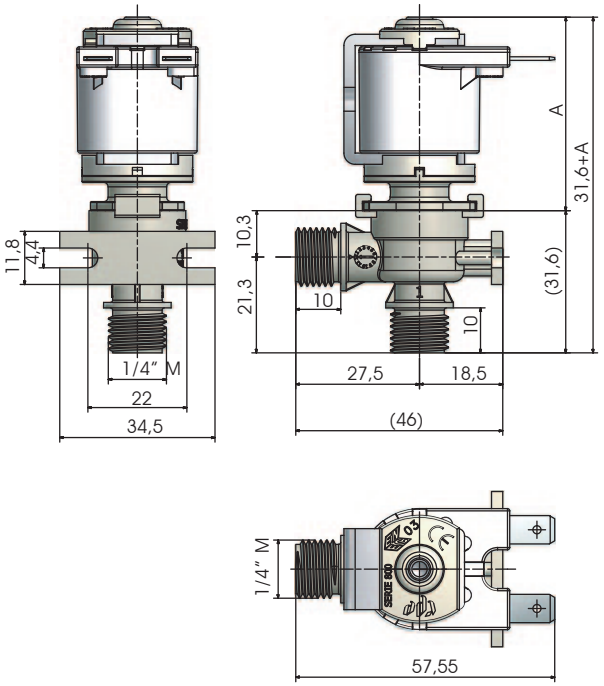
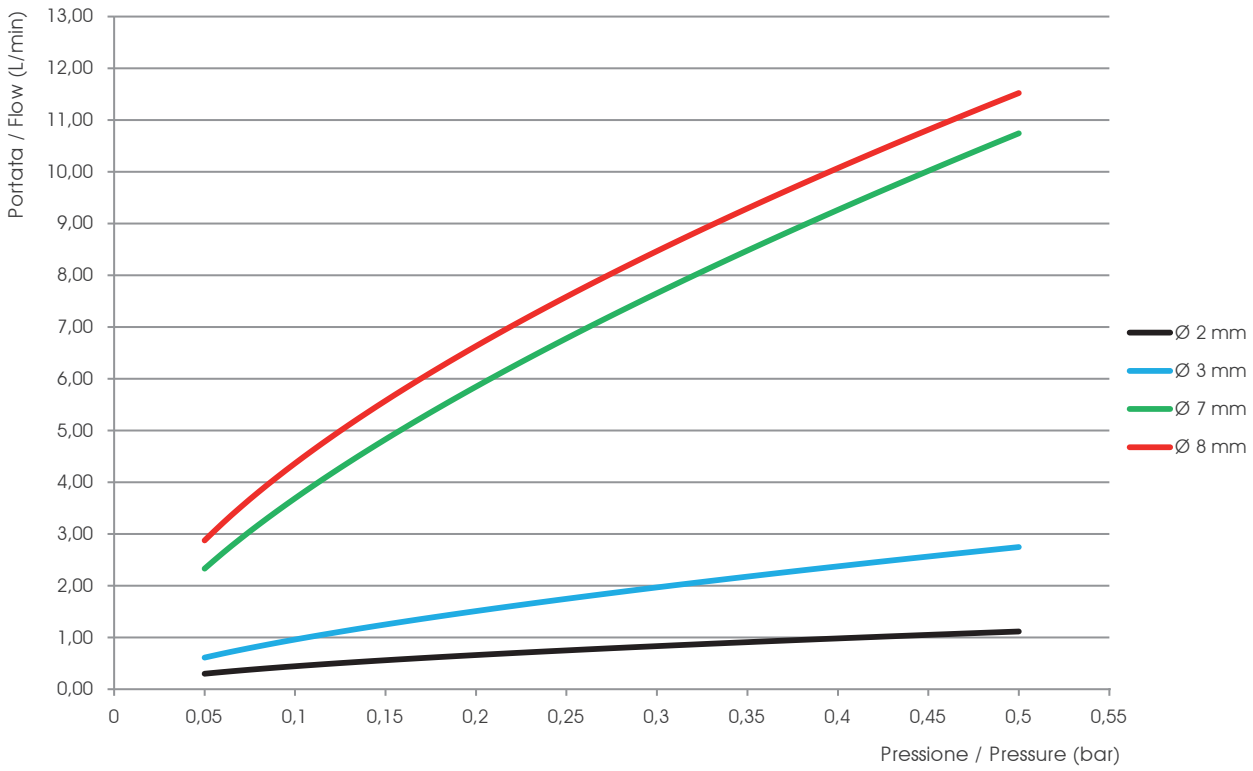


Misure in millimetri - Dimensions in millimeters

GRAFICO PORTATE SERIE 800 / FLOW RATES CHART 800 SERIES



Serie 800 - Solenoidi

800 Series - Solenoids

			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**	**cosφ**	**ED (funzionamento) (duty cycle)**	**Faston(F), Cavi Unipolari (C) / wires**	**Cavi bipolari wires (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	✓	
3	12 V DC	=	5,4 W	/	440 mA	/	/	100%	F, C	300, 1000, 1450, 2000, 2500	Enec	✓	
4	24 V AC	50 HZ 60 HZ	7,2 VA	9,65 VA 8,20 VA	225 mA 205 mA	405 mA 355 mA	0,6 0,58	100%	F, C	1000, 1450, 2000, 2500	Enec	✓	
5	24 V AC	=	6,3 W	/	240 mA	/	/	100%	F, C	1000, 1450, 2500	Enec	✓	
6	110 V AC	50 HZ 60 HZ	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	✓	
7	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	✓	
8	L6 V DC	=	5 W	/	830 mA	/	/	LATCHING	F, C	300, 620, 1000, 1450, 2500	/	Latching	
9	240 V DC	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	✓	

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

Legenda / Key:
NC: Normalmente Chiusa / Normally Closed
NA: Normalmente Aperta / Normally Open
NB: Bistabile / Latching
GW: Glow Wire

ED Funzionamento / Duty Cycle = 100%
Approvazioni /Approvals: ENEC
Faston: IP X0
Cavi / Wires: IP 55

Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil insulation class: F
Tipo faston / Faston type: 6,3 × 0,8 mm

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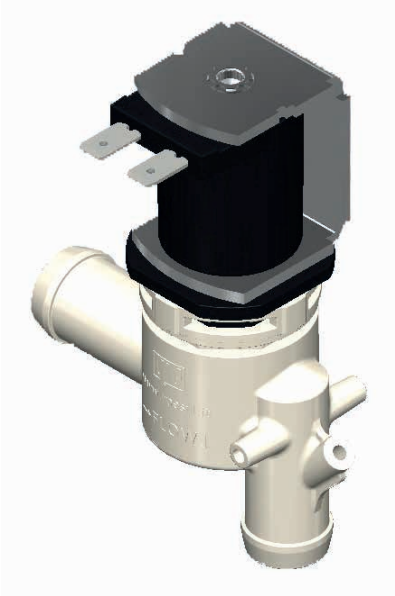
Serie 800 D

800 D Series



CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 FV30 NAT
Membrana:	LSR (Silicone liquido)
Nucleo:	Acciaio Inox
Molla:	Acciaio Inox
Assemblaggio:	Baionetta

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 GF30 NAT
Diaphragm:	LSR (Liquid silicone)
Core:	Stainless Steel
Spring:	Stainless Steel
Assembly:	Bayonet

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 ÷ 0,3 bar
Temperatura ambiente:	0 ÷ 40°C
Temperatura fluido:	0 ÷ 25°C
Direzione fluido:	Unidirezionale
Diametro di passaggio:	Ø 12,75 mm
Elet.Pilota/Comando:	Drain Valve

WORKING SPECIFICATIONS

Working pressure:	0 ÷ 0,3 bar
Room temperature:	0 ÷ 40°C
Fluid temperature:	0 ÷ 25°C
Flow direction:	Unidirezionale
Nominal diameter:	Ø 12,75 mm
Elect.Pilot/Control:	Drain Valve

CONNESSIONI ELETTRICHE

Faston maschi 6,3 x 0,8 mm

ELECTRICAL CONNECTIONS

6,3 x 0,8 mm male Faston

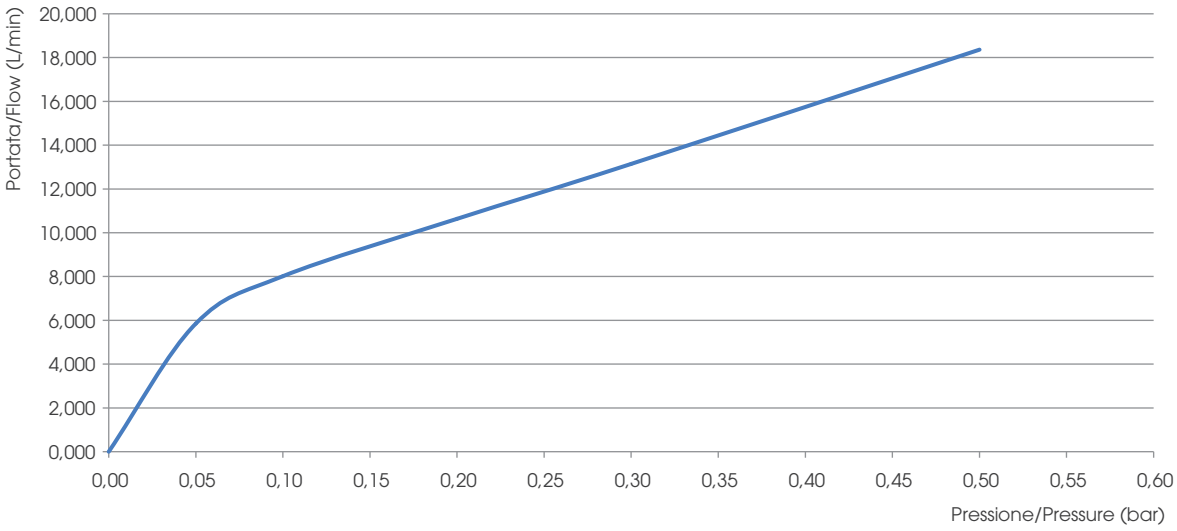
Serie 800 D

800 D Series

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 - 0,3 bar	0 - 40 °C	0 - 25 °C
Serie 800 D	G 3/4 BSPP	PG 16 mm	100	12,75 mm	0 - 0,3 bar	0 - 40 °C	0 - 25 °C

Legenda / Key:
PG = Portagomma / Hose tail

GRAFICO PORTATE / FLOW RATES CHART



						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)	Faston (F), Cavi (wires) Unipolari (C)	Cavi (wires) bipolari (in mm)	NC	NA* (NO)
1	230V AC	50 Hz	20 VA	170 mA	4 min ON 5 min OFF	H	/	✓	/
2	120V AC	50 Hz	18 VA	290 mA	4 min ON 5 min OFF	H	/	✓	/
3	24 V AC	50 Hz	18 VA	1,5 A	4 min ON 5 min OFF	H	/	✓	/

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

Legenda / Key:
NC: Normalmente Chiusa / Normally Closed
NA: Normalmente Aperta / Normally Open
GW: Glow Wire
UL: Underwriters Laboratories

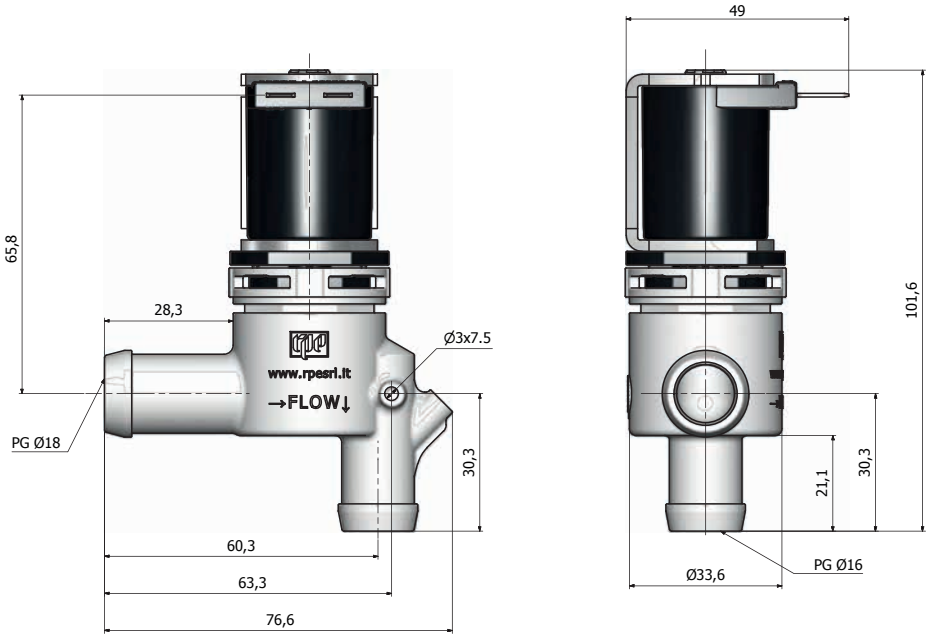
Cavi / Wires: IP 55
Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil insulation class: F
Tipo Faston / Faston type: 6,3 x 0,8 mm

Misure in millimetri - Dimensions in millimeters

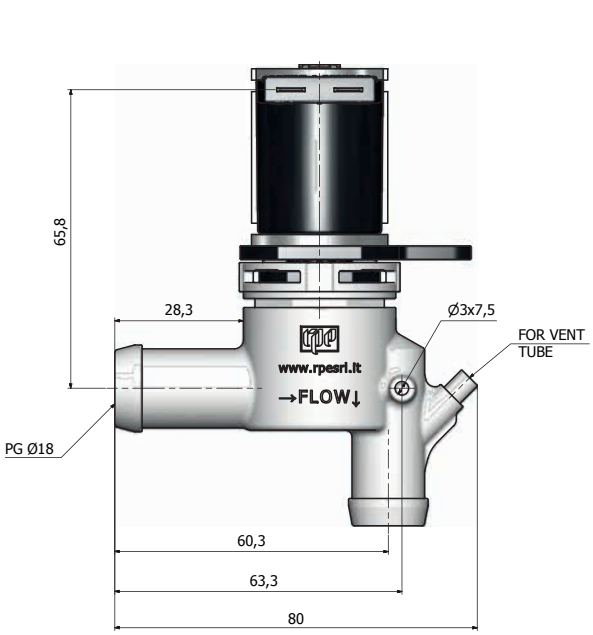
Serie 800 D

800 D Series

Serie 800D PG 18 mm — 800D Series PG 18 mm



Serie 800D PG 18 mm — 800D Series PG 18 mm

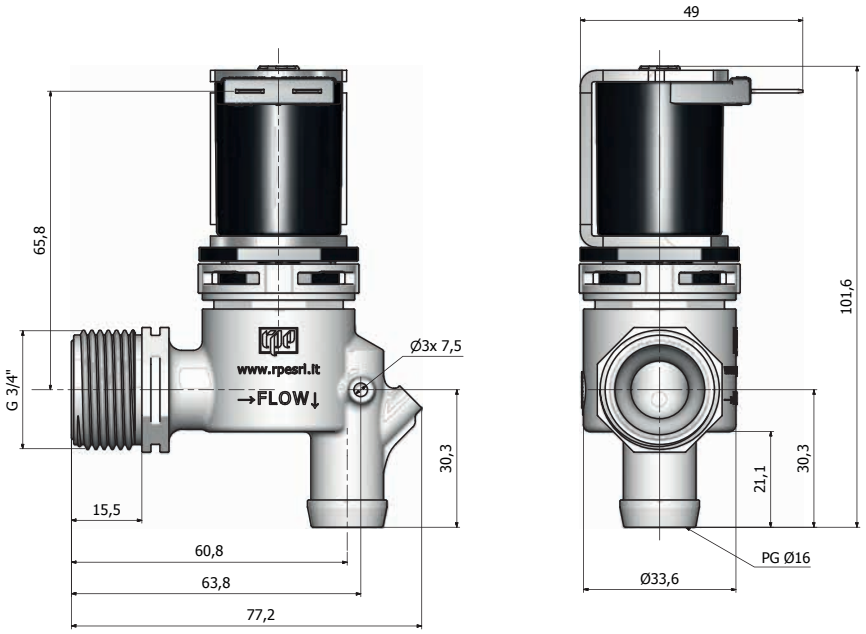


Misure in millimetri - Dimensions in millimeters

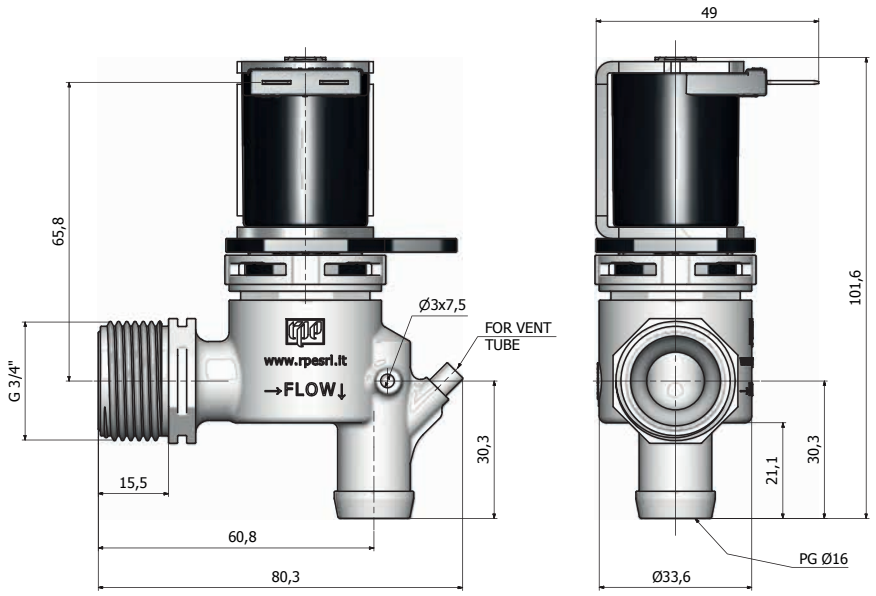
Serie 800 D

800 D Series

Serie 800D 3/4 BSPP — 800D Series 3/4 BSPP



Serie 800D 3/4 BSPP — 800D Series 3/4 BSPP



Misure in millimetri - Dimensions in millimeters

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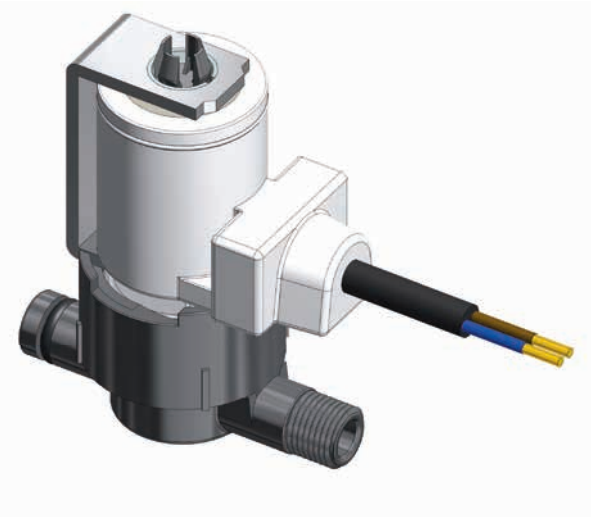
Serie 900

900 Series



CARATTERISTICHE FISICHE

Corpo valvola:	PPO - 20% FV
Membrana:	NBR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Baionetta

PHYSICAL SPECIFICATIONS

Valve body:	PPO - 20% GF
Diaphragm:	NBR
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	Bayonet

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 - 0,2 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 90° C - ED 100%
Diametro nominale:	DN 3 mm
Comando:	NC
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0 - 0,2 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 90° C - ED 100%
Orifice:	ND 3 mm
Control:	NC
Fluid direction:	Unidirectional

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi bipolari max 2100 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Bipolar wires max 2100 mm

GAMMA SOLENOIDI

24 V AC	50/60 HZ
230 V AC	50/60 HZ

SOLENOIDS RANGE

24 V AC	50/60 HZ
230V AC	50/60 HZ

CERTIFICAZIONI / CERTIFICATIONS

CE

Serie 900

900 Series

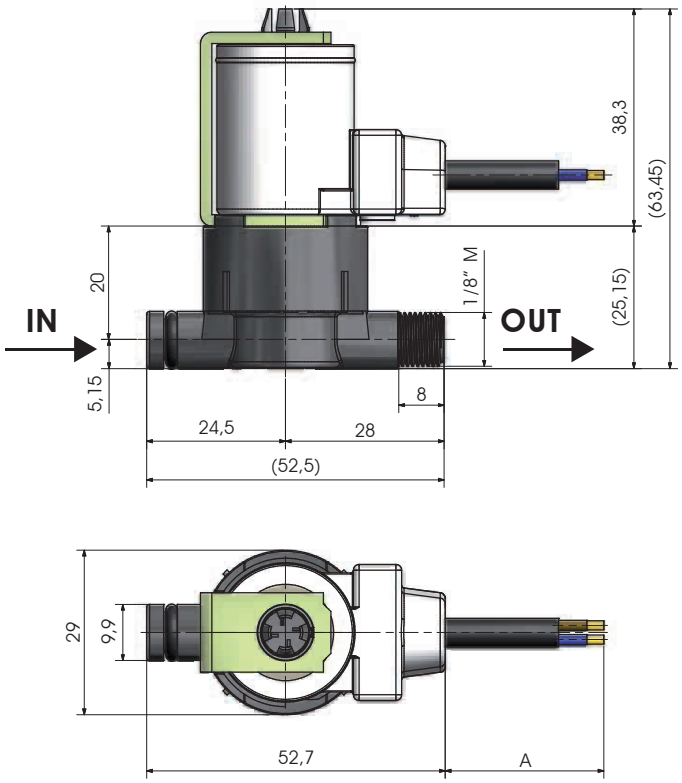
Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Connessione elettrica Electrical connection
900.000.A24AC	M custom	1/8" M	200	3 mm	Faston
900.020.A24AC	M custom	1/8" M	200	3 mm	Cavo 600 mm Wire 600 mm
900.040.A24AC	M custom	1/8" M	200	3 mm	Cavo 930 mm Wire 930 mm
900.010.A24AC	M 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	24,3 mA	100%	✓	✓

Legenda / Key:
NC: Normalmente Chiusa / Normally Closed
NA: Normalmente 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

Serie 900 900 Series



Misure in millimetri - Dimensions in millimeters

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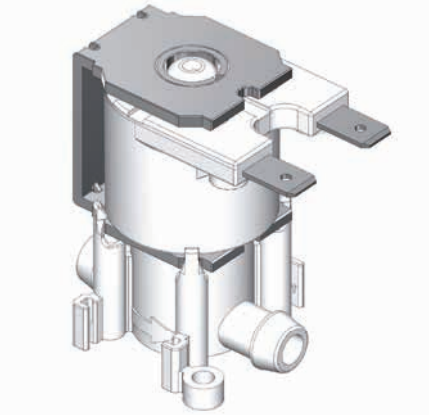
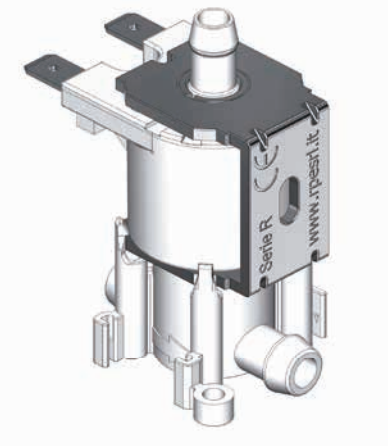
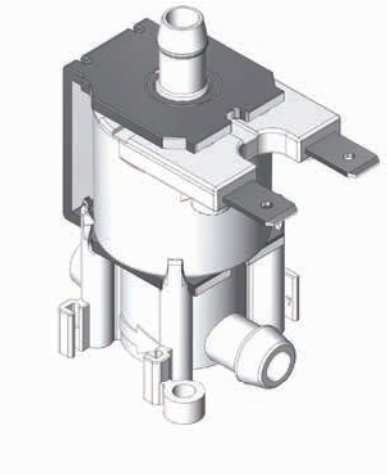
Serie T

T Series







CARATTERISTICHE FISICHE

Corpo valvola:	POM
Membrana:	LSR
Nucleo:	Acciaio Inox
Molla:	Acciaio Inox
Assemblaggio:	A scatto

PHYSICAL SPECIFICATIONS

Valve body:	POM
Diaphragm:	LSR
Core:	Stainless steel
Spring:	Stainless steel
Assembly:	Locking snap

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 - 0,5 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C - ED 100%
Diametro nominale:	DN 4 mm (NC); DN 2 mm (NA)
Comando:	2/2; 3/2
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0 - 0,5 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C - ED 100%
Orifice:	ND 4 mm (NC); ND 2 mm (NO)
Control:	2/2; 3/2
Fluid direction:	Unidirectional

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm

GAMMA SOLENOIDI

Tensione:	24 V DC
Potenza:	6,3 W
Assorbimento:	265 mA
ED:	100%

SOLENOIDS RANGE

Voltage:	24 V DC
Power:	6,3 W
Consuption:	265 mA
ED:	100%

CERTIFICAZIONI / CERTIFICATIONS

CE

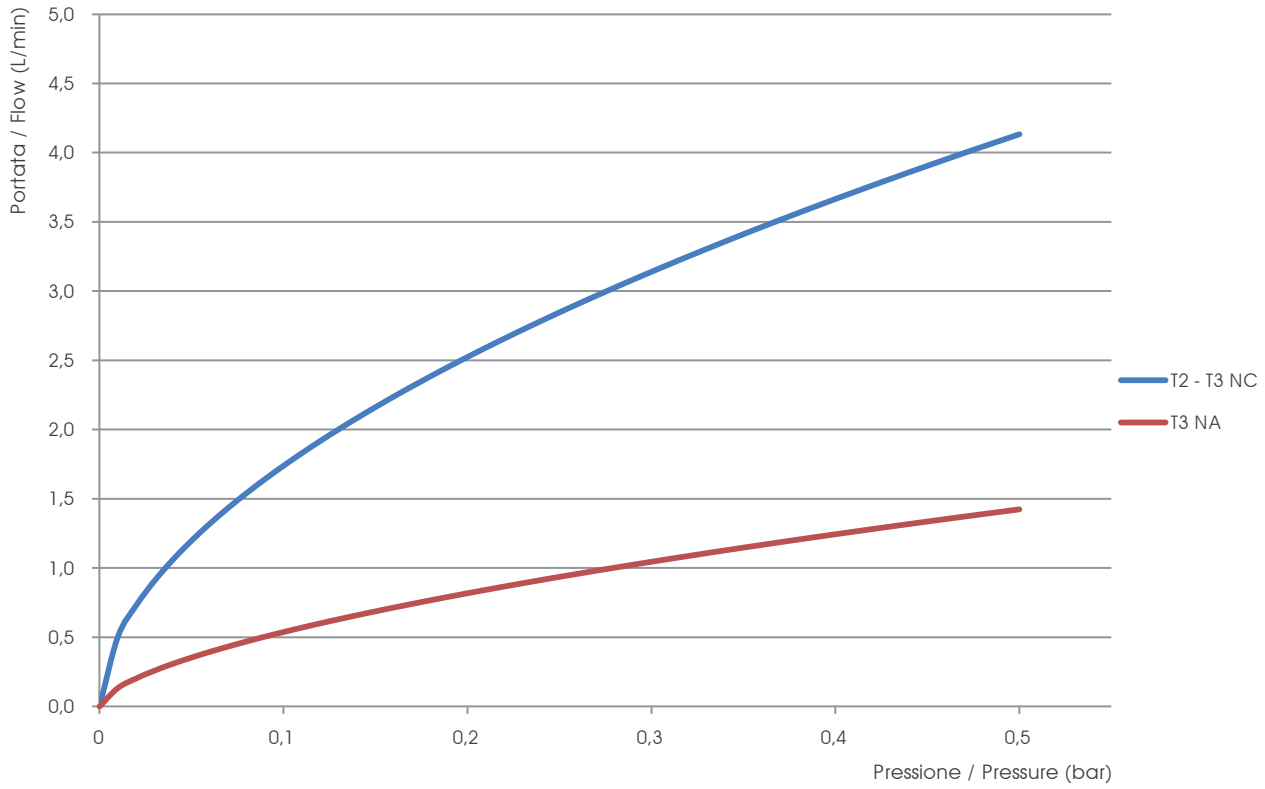
Serie T

T Series

Modello Model	Geometria Geometry	IN	OUT NC	OUT NA/NO	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure
T2D40PG100000 24DC	2 vie; 2 ways	PG 8 mm	PG 8 mm		320	4 mm	0 - 0,5 bar
T3D40PG100000 24DC	3 vie; 3 ways	PG 8 mm	PG 8 mm	PG 7 mm	320	2 mm	0 - 0,5 bar
T3D40PG100001 24DC	3 vie; 3 ways	PG 8 mm	PG 8 mm	PG 7 mm	320	2 mm	0 - 0,5 bar

Legenda / Key:
PG = Portagomma / Hose tail

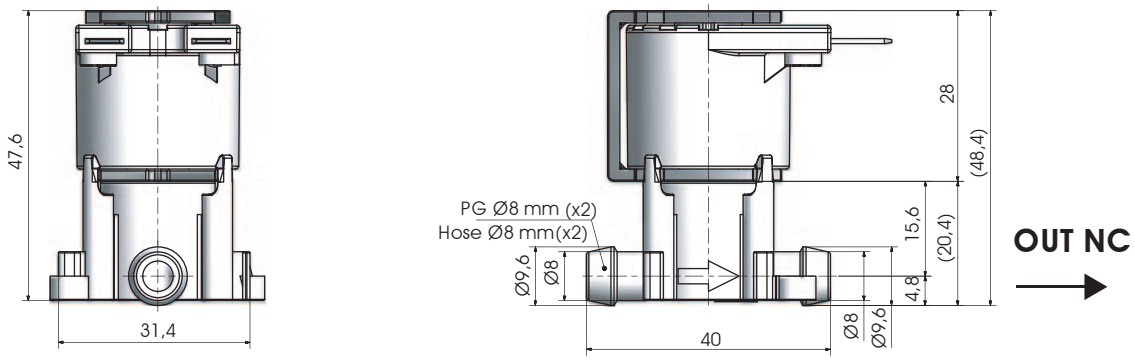
GRAFICO PORTATE SERIE T / FLOW RATES CHART T SERIES



Serie T

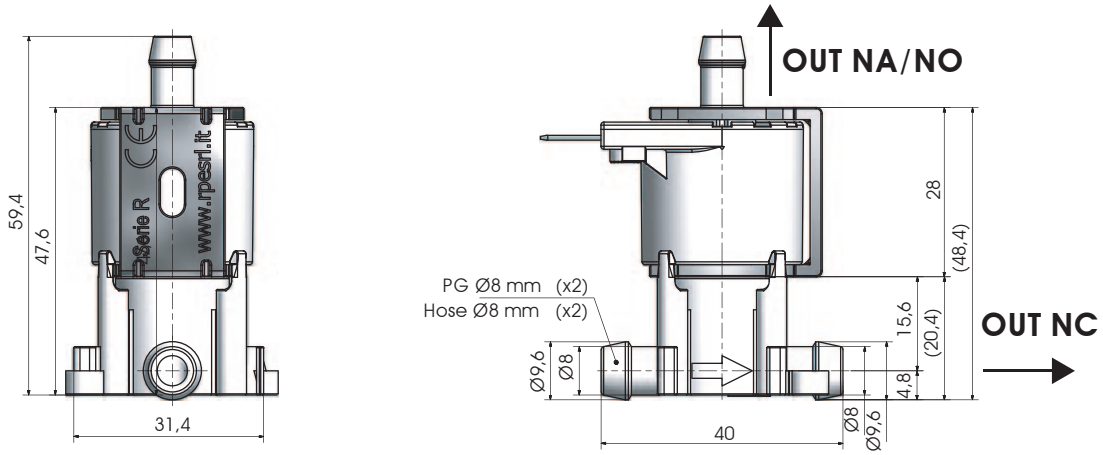
T Series

T2



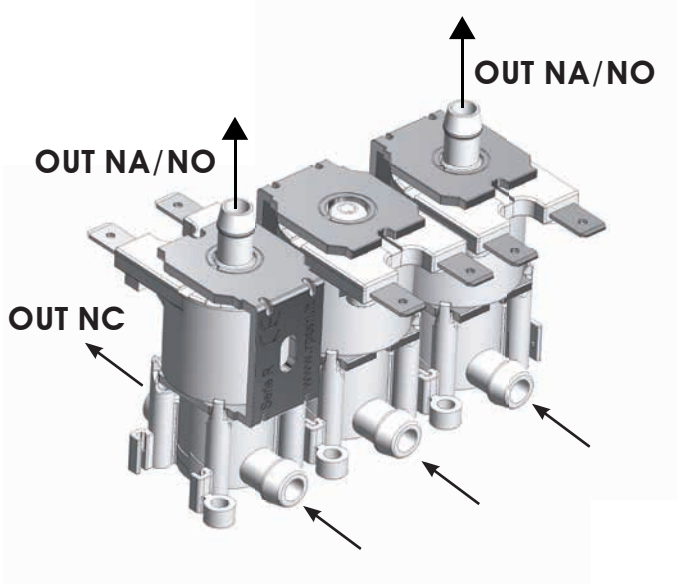
Misure in millimetri - Dimensions in millimeters

T3



Misure in millimetri - Dimensions in millimeters

Serie T assemblata — T Series assembled



Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

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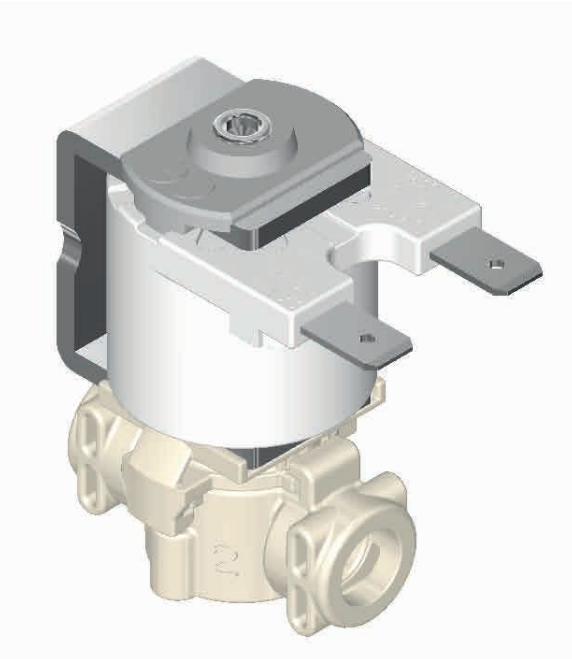
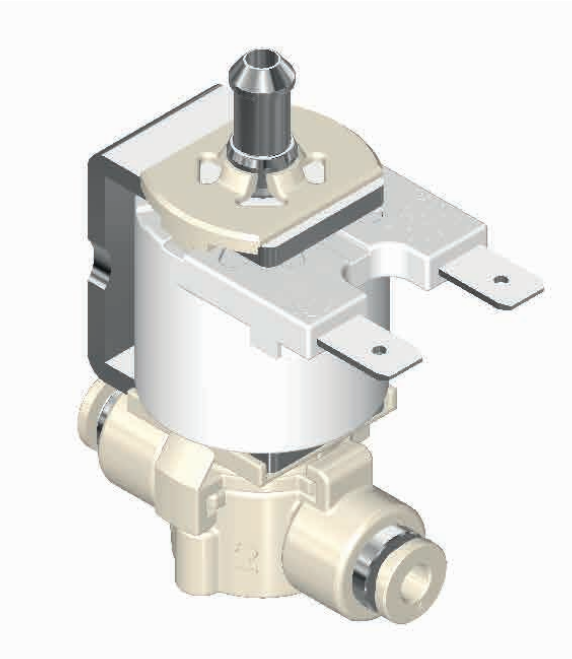
SERIE TV2 - TV3

TV2 - TV3 Series





CARATTERISTICHE FISICHE

Corpo valvola:	PPS
Membrana:	FPM/FKM
Nucleo:	Acciaio INOX
Molla:	Acciaio INOX
Assemblaggio:	Aggancio rapido

PHYSICAL CHARACTERISTICS

Valve body:	PPS
Diaphragm:	FPM/FKM
Core:	Stainless steel
Spring:	Stainless steel
Assembly:	Fast connection

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 ÷ 15 bar
Temperatura ambiente:	0 ÷ 60°C
Temperatura fluido:	0 ÷ 140°C
Direzione fluido:	Unidirezionale
Diametro di passaggio:	Ø1,5 -2,0 - 2,5 mm
Elet.Pilota/Comando:	2/2 - 3/2

WORKING SPECIFICATIONS

Working pressure:	0 ÷ 15 bar
Room temperature:	0 ÷ 60°C
Fluid temperature:	0 ÷ 140°C
Flow direction:	Unidirezionale
Nominal diameter:	Ø1,5 -2,0 - 2,5 mm
Elect.Pilot/Control:	2/2 - 3/2

CONNESSIONI ELETTRICHE

Faston maschio 6,3 x 0,8

ELECTRICAL CONNECTIONS

Male 6.3 x 0.8 Faston

GAMMA SOLENOIDI

24 V DC
230V AC

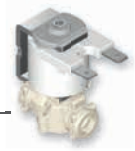
SOLENOID RANGE

24 V DC
230V AC

CERTIFICAZIONI / CERTIFICATIONS

SERIE TV2 - TV3

TV2 - TV3 Series



Modello Model	Geometria Geometry	IN	OUT	OUT NA/NO	MOQ	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure
TV2	2 vie	Roemer 4	Roemer 4		320	1,5 - 2,0 - 2,5	0 - 15
TV2	2 vie	Roemer 6	Roemer 6		320	1,5 - 2,0 - 2,5	0 - 15
TV2	2 vie	Fast connection	Fast connection		320	1,5 - 2,0 - 2,5	0 - 15
TV3	3 vie	Roemer 4	Roemer 4	PG7	320	1,5	0 - 15
TV3	3 vie	Roemer 6	Roemer 6	PG7	320	1,5	0 - 15
TV3	3 vie	Fast connection	Fast connection	PG7	320	1,5	0 - 15

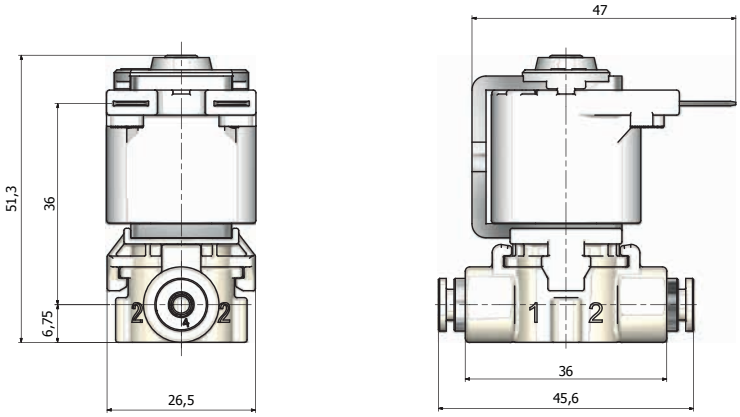
Legenda / Key:
PG = Portagomma / Hose tail

Misure in millimetri - Dimensions in millimeters

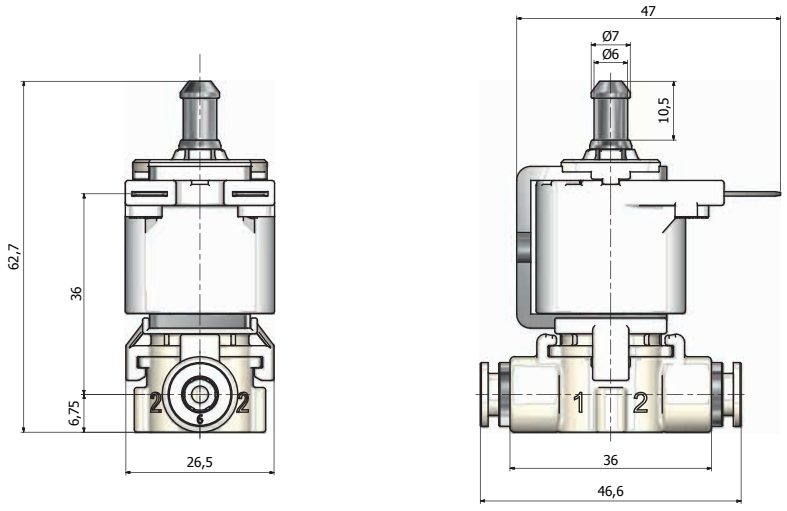
SERIE TV2 - TV3

TV2 - TV3 Series

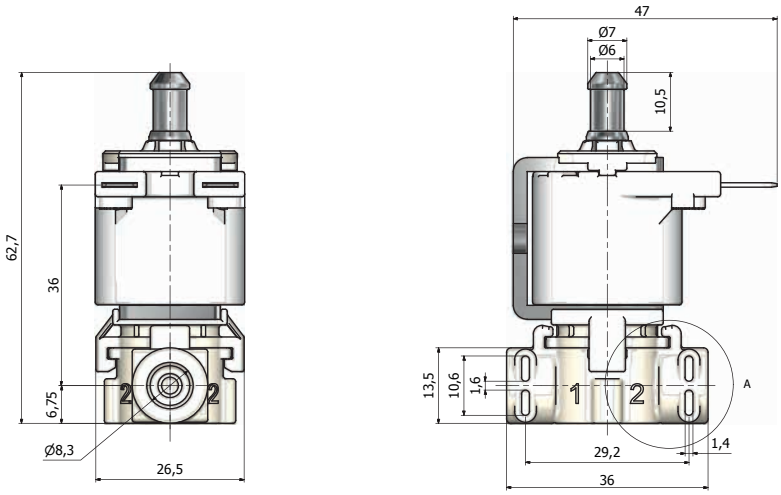
TV2 ROEMER Ø 4 mm



TV3 ROEMER Ø 6 mm



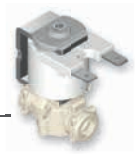
TV3 FAST CONNECTION



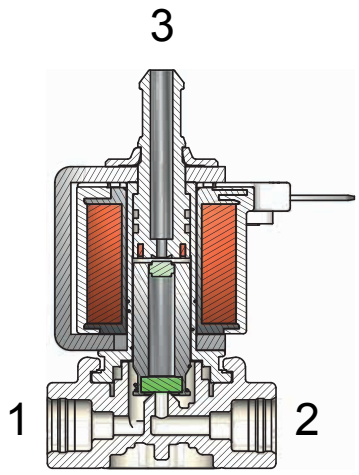
Misure in millimetri - Dimensions in millimeters

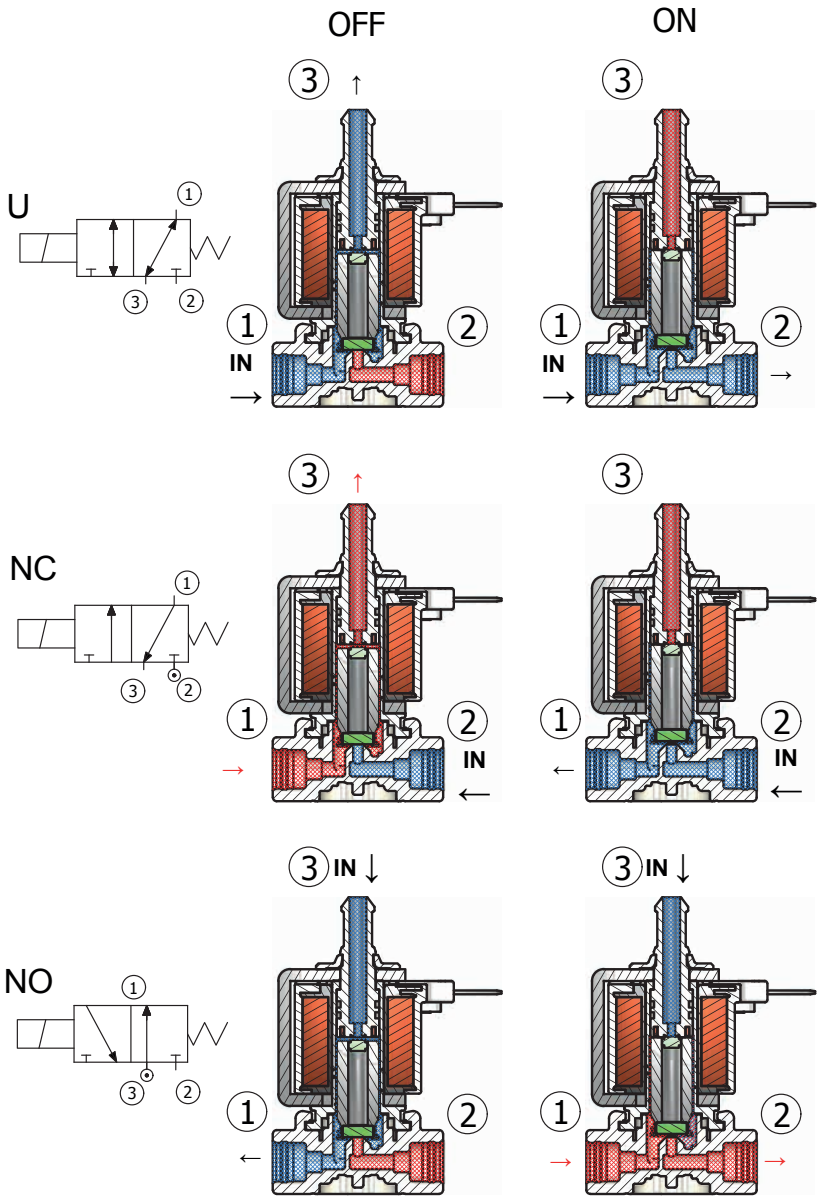
SERIE TV2 - TV3

TV2 - TV3 Series



Schemi di funzionamento di T3 3/2 vie T3 3/2 Operating plan





SOLENOID VALVE 3/2 U

Ø (mm)		MOPD (bar)	
Port 3	Port 2	P IN min	P IN max
	1,5	0	
1,5	2	0	10
	2,5	0	
	1,5	0	
2	2	0	
	2,5	0	

SOLENOID VALVE 3/2 NC

Ø (mm)		MOPD (bar)	
Port 3	Port 2	P IN min	P IN max
	1,5	0	
1,5	2	0	6
	2,5	0	
	1,5	0	
2	2	0	
	2,5	0	

SOLENOID VALVE 3/2 NO

Ø (mm)		MOPD (bar)	
Port 3	Port 2	P IN min	P IN max
	1,5	0	
1,5	2	0	6
	2,5	0	
	1,5	0	
2	2	0	
	2,5	0	

Misure in millimetri - Dimensions in millimeters

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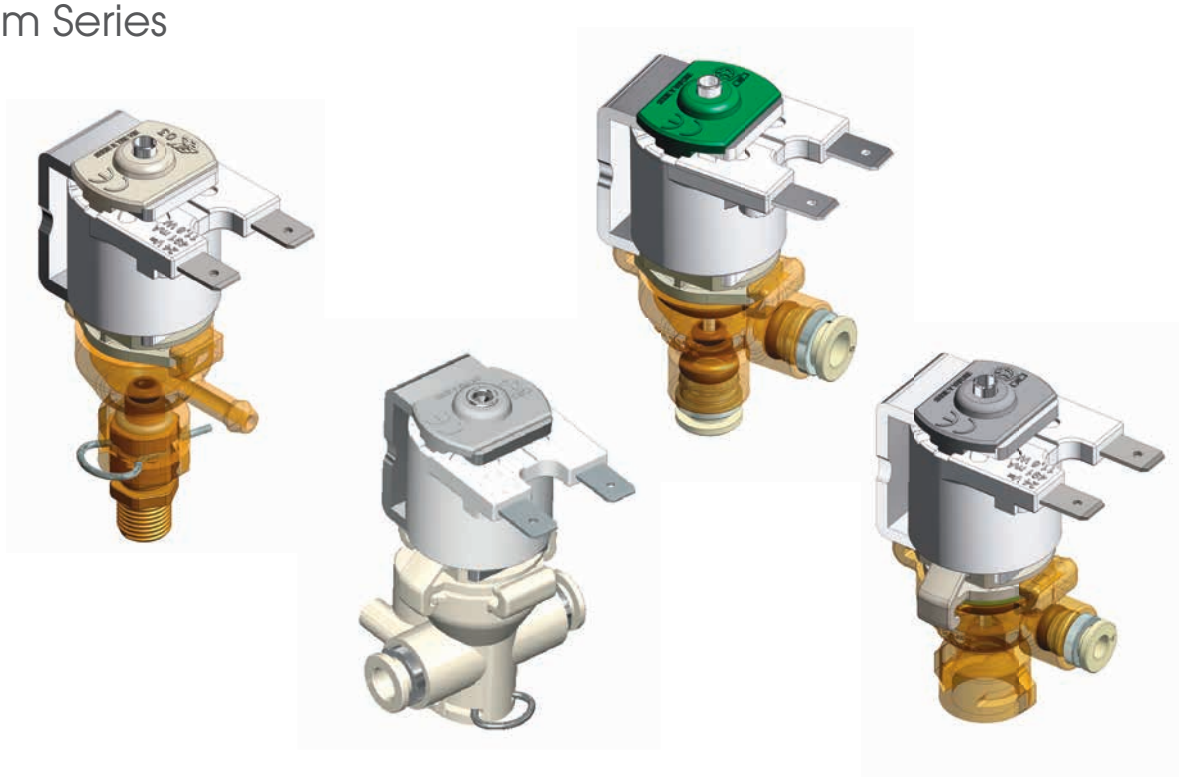
Serie Vapore

Steam Series



CARATTERISTICHE FISICHE

Corpo valvola:	PPSU; PPS
Membrana:	EPDM
Guarnizione:	EPDM
Nucleo:	Acciaio Inox
Bobine:	Classe F (155˚)
Assemblaggio:	Baionetta / Doppia baionetta

PHYSICAL SPECIFICATIONS

Valve body:	PPSU; PPS
Diaphragm:	EPDM
Gasket:	EPDM
Core:	Stainless steel
Coils:	F class (155˚)
Assembly:	Bayonet / Doble bayonet

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	Max 15 bar
Contropressione:	Max 8 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 140° C - ED 50%
Diametro nominale:	DN 2,0 - 2,5 mm
Comando:	NC
Direzione del fluido:	Unidirezionale
CV:	Vedi pagina successiva

WORKING SPECIFICATIONS

Working pressure:	Max 15 bar
Back- pressure:	Max 8 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 140° C - ED 50%
Orifice:	ND 2,0 - 2,5 mm
Control:	NC
Fluid direction:	Unidirectional
CV:	See next page

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm

CERTIFICAZIONI / CERTIFICATIONS

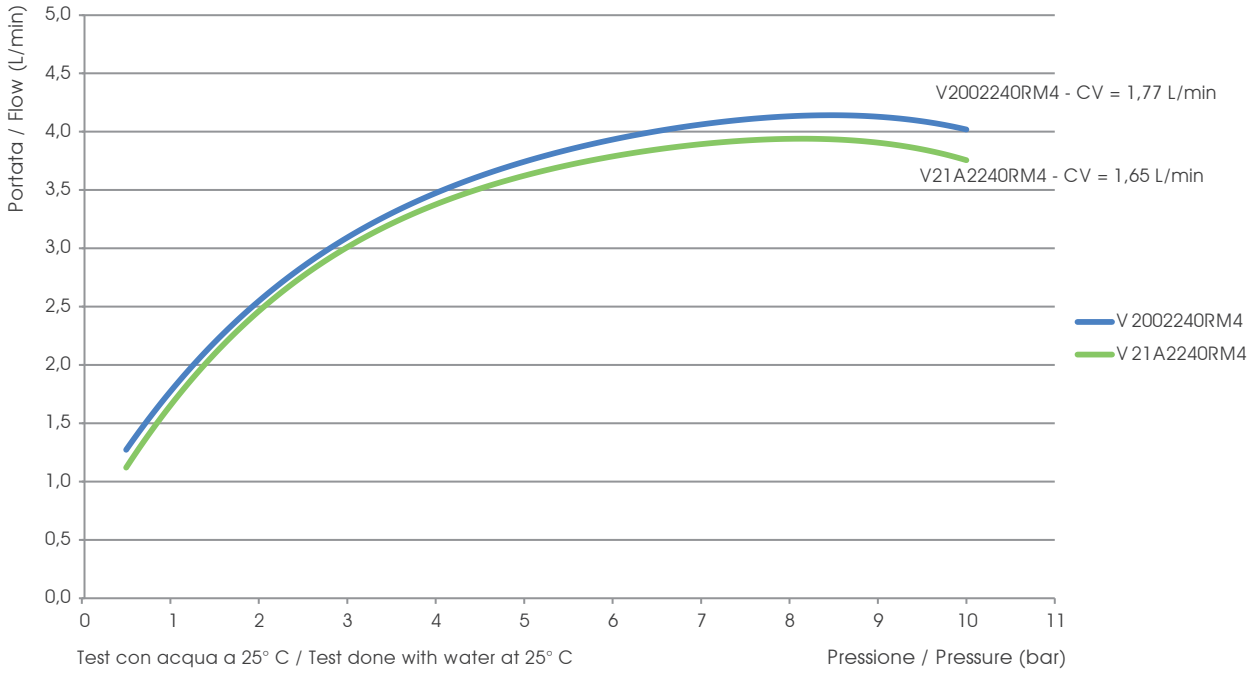
Serie Vapore

Steam Series

Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio / Working pressure	Temp. Ambiente Room temp.	Temp. Fluido Fluid temp.	Certificazioni Certifications
V02	1/8" M	PG 5 mm	108	2 mm	0 - 5 bar	60° C	140° C	CSV: CE; NSF
-	Forchetta	Forchetta	108	2,5 mm	0 - 10 bar	60° C	140° C	CE; NSF
V2002240RM4	Forchetta	Roemer 4 mm	108	2 mm	0 - 12 bar	60° C	140° C	CE; NSF
V21A2240RM4	Forchetta	Roemer 4 mm	108	2 mm	0 - 12 bar	60° C	140° C	CE; NSF
V23A2240RM4	Forchetta	Roemer 4 mm	108	2 mm	0 - 12 bar	60° C	140° C	CE; NSF
V2002260RM66	Roemer 6 mm	Roemer 6 mm	108	2 mm	0 - 12 bar	60° C	140° C	CE; NSF
V22A2260RM6	Roemer 6 mm	Forchetta	108	2 mm	0 - 15 bar	60° C	140° C	CE

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

GRAFICO PORTATE SERIE VAPORE / FLOW RATES CHART STEAM SERIES



			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	Assorbim. (mA) in spunto / In Rush Current	cosφ	ED (funzionamento) (duty cycle)
1	24 V DC	=	11,8 W	/	490 mA	/	/	50%
2	230 V AC	50 HZ	11 VA	16,60 VA	48 mA	72 mA	0,64	50%

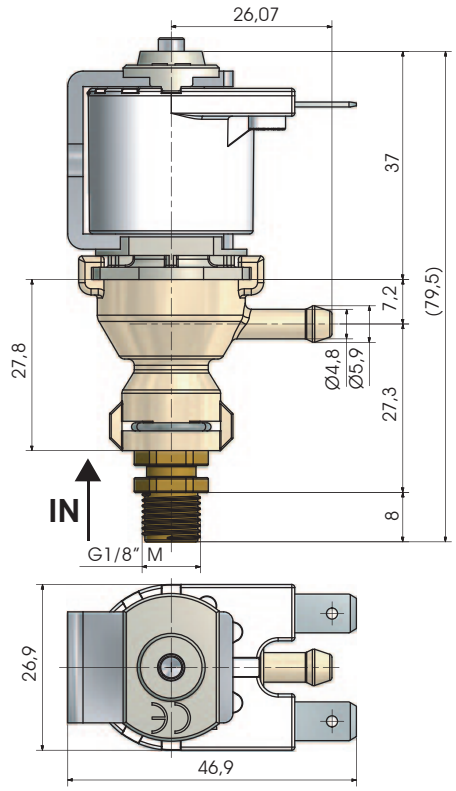
Legenda / Key:
ED Funzionamento / Duty Cycle = 50%
Approvazioni /Approvals: ENEC, UL, GW
Faston: IP X0

Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil insulation class: F
Tipo faston (Faston type): 6,3 × 0,8 mm

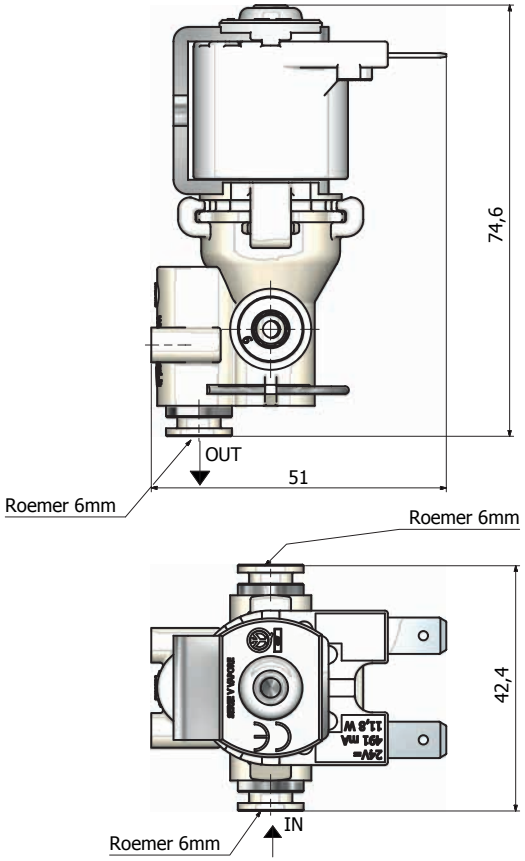
Serie Vapore

Steam Series

V 02

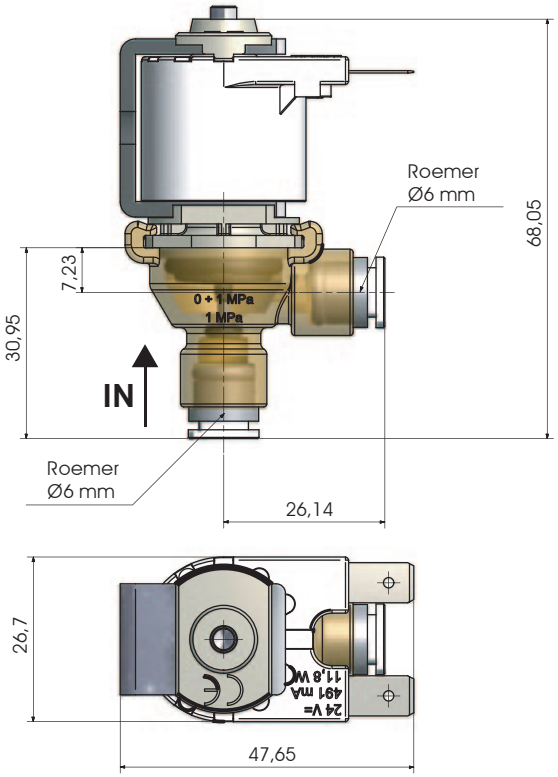


V22A2260RM6

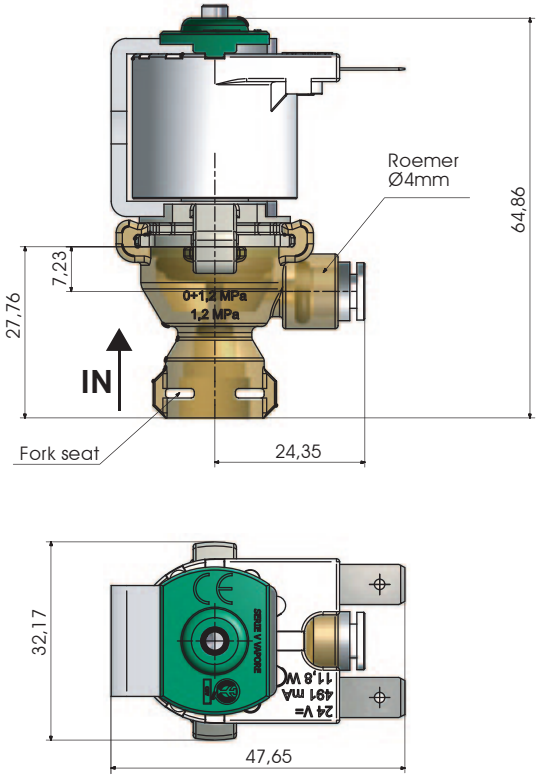


Misure in millimetri - Dimensions in millimeters

V2002660RM66



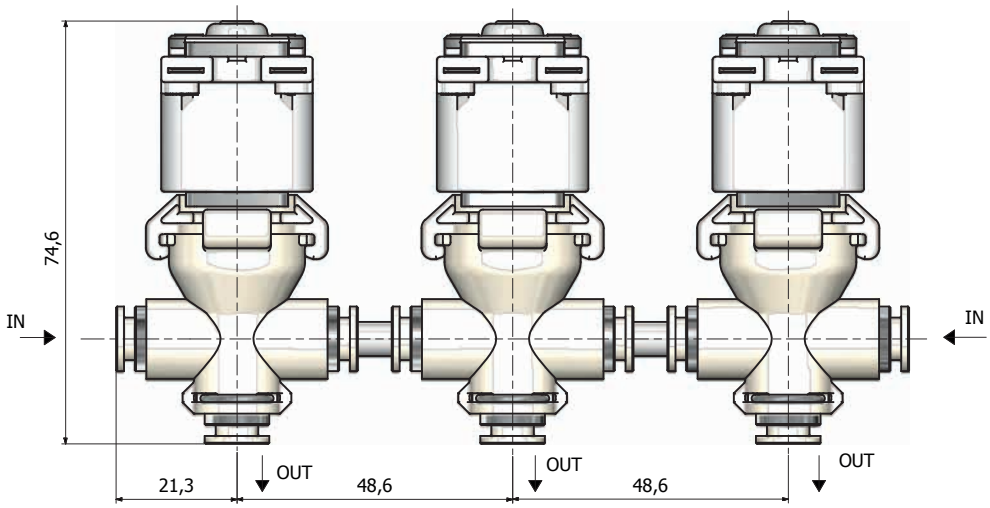
V2002240RM4

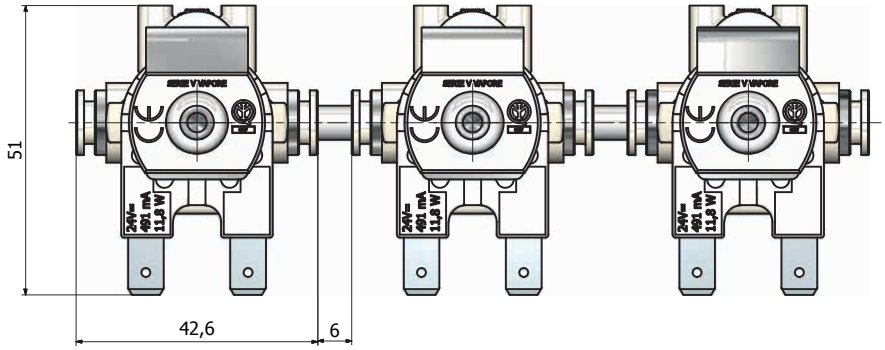


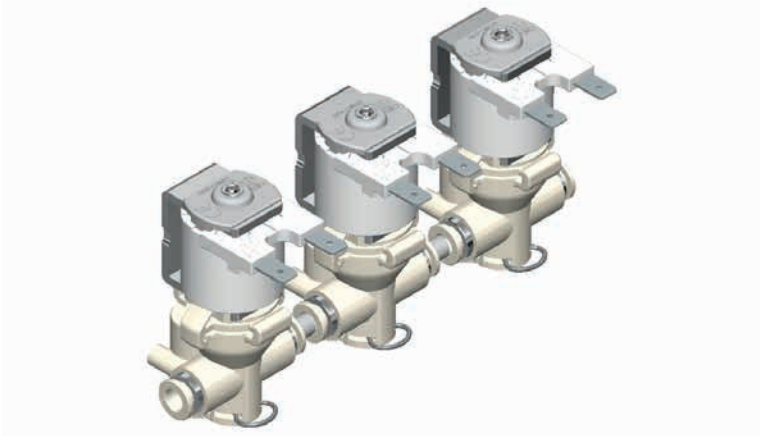
Serie Vapore

Steam Series

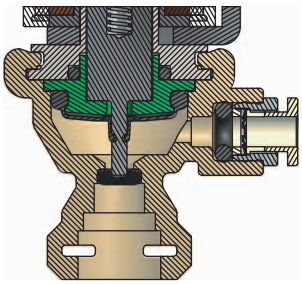
Serie vapore assemblata — Assembled steam valves







Sistema auto-pulente — Self-cleaning system



Misure in millimetri - Dimensions in millimeters

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Serie 890

890 Series

CARATTERISTICHE FISICHE

Corpo valvola:	PA 66
Membrana:	Silicone
Nucleo:	Acciaio inossidabile
Molla:	Acciaio inossidabile
Assemblaggio:	Viti

PHYSICAL SPECIFICATIONS

Valve body:	PA 66
Diaphragm:	Silicone
Core:	Stainless steel
Spring:	Stainless steel
Assembly:	Screw

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 ÷ 0,1bar
Temperatura ambiente:	MAX 60°C
Temperatura fluido:	MAX 98°C
Direzione fluido:	Unidirezionale
Diametro di passaggio:	Ø8mm
Elet.Pilota/Comando:	NC

WORKING SPECIFICATIONS

Working pressure:	0 ÷ 0,1bar
Room temperature:	MAX 60°C
Fluid temperature:	MAX 98°C
Flow direction:	Unidirectional
Nominal diameter:	Ø8mm
Elect.Pilot/Control:	NC

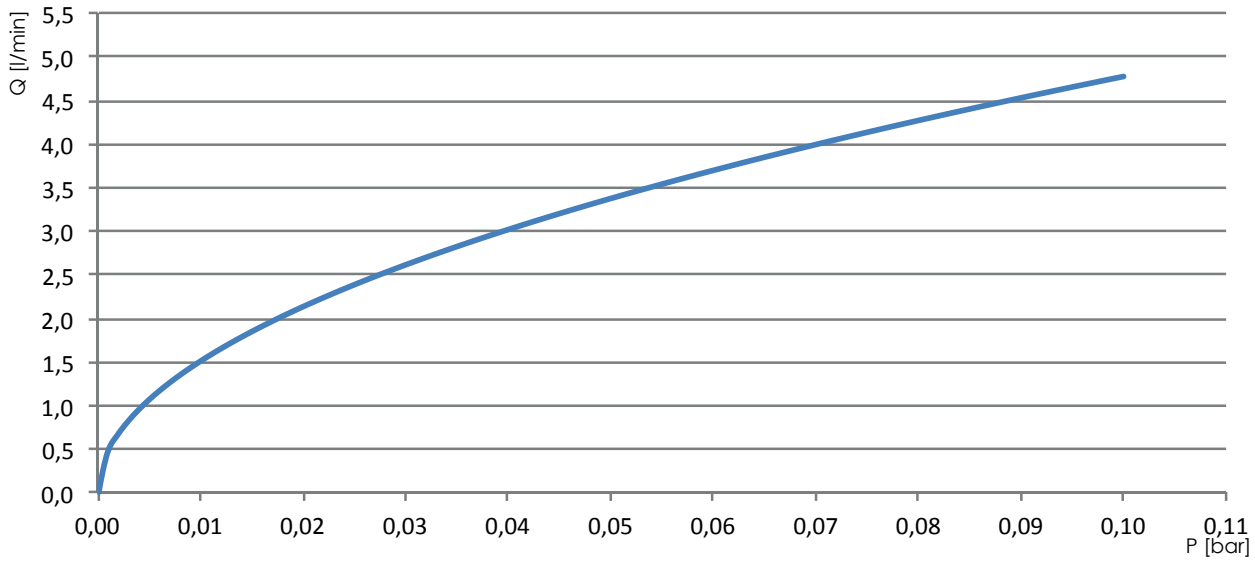
Serie 890

890 Series

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

Legenda / Key: PG = Portagomma / Hose tail

GRAFICO PORTATE SERIE VAPORE / FLOW RATES CHART STEAM SERIES



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

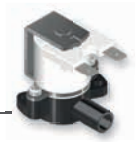
			Potenza Power		Assorbimento Consuption			
Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim. / Holding Power	Potenza di spunto / In Rush Power	Assorbim. (mA) in mantenimento/ Holding Current	Assorbim. (mA) in spunto / In Rush Current	cosφ	ED (funzionamento) (duty cycle)
1	24 V DC	=	9 W	/	370 mA	/	/	50%

Legenda / Key:
ED Funzionamento / Duty Cycle = 50%
Approvazioni /Approvals: ENEC, UL, GW
Faston: IP X0

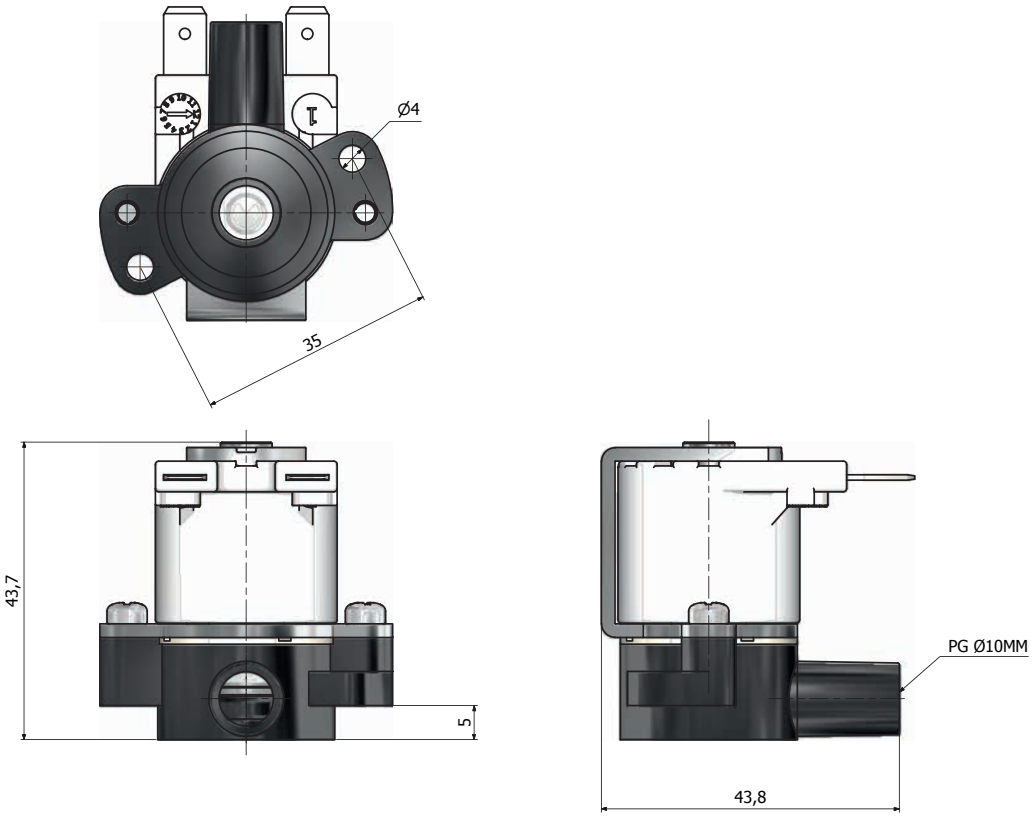
Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil insulation class: F
Tipo faston (Faston type): 6,3 × 0,8 mm

Serie 890

890 Series



Serie 890 890 Series



Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

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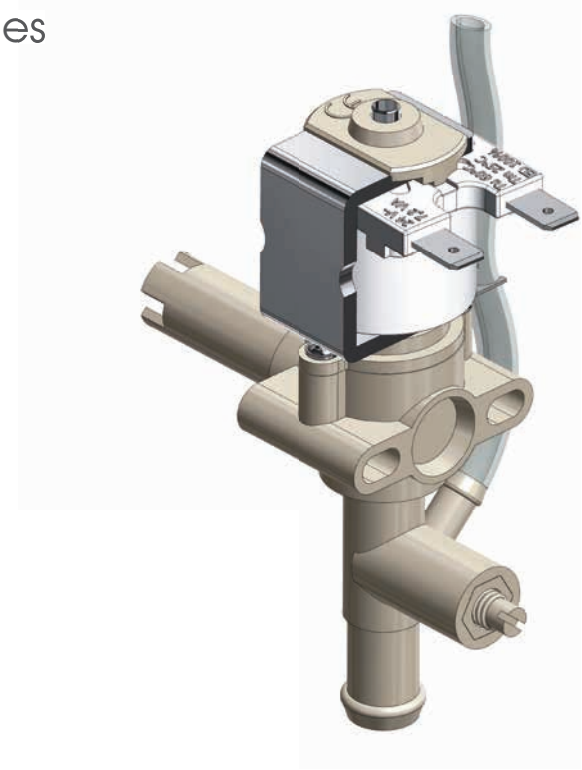
Serie RD Vent

RD Vent Series



CARATTERISTICHE FISICHE

Corpo valvola:	PSU
Membrana:	Silicone
Nucleo:	Acciaio Inox
Molla:	AISI 304
Bobine::	Classe F (155˚)
Assemblaggio:	Baionetta e viti

PHYSICAL SPECIFICATIONS

Valve body:	PSU
Diaphragm:	Silicone
Core:	Stainless steel
Spring:	AISI 304
Coils:	F class (155˚)
Assembly:	Bayonet and screws

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 - 0,06 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 98° C - ED 100%
Diametro nominale:	DN 8 mm
Comando:	NC
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0 - 0,06 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 98° C - ED 100%
Orifice:	ND 8 mm
Control:	NC
Fluid direction:	Unidirectional

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm

GAMMA SOLENOIDI

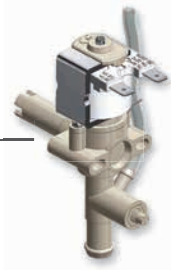
12 V DC
24 V DC

SOLENOIDS RANGE

12 V DC
24 V DC

Serie RD Vent

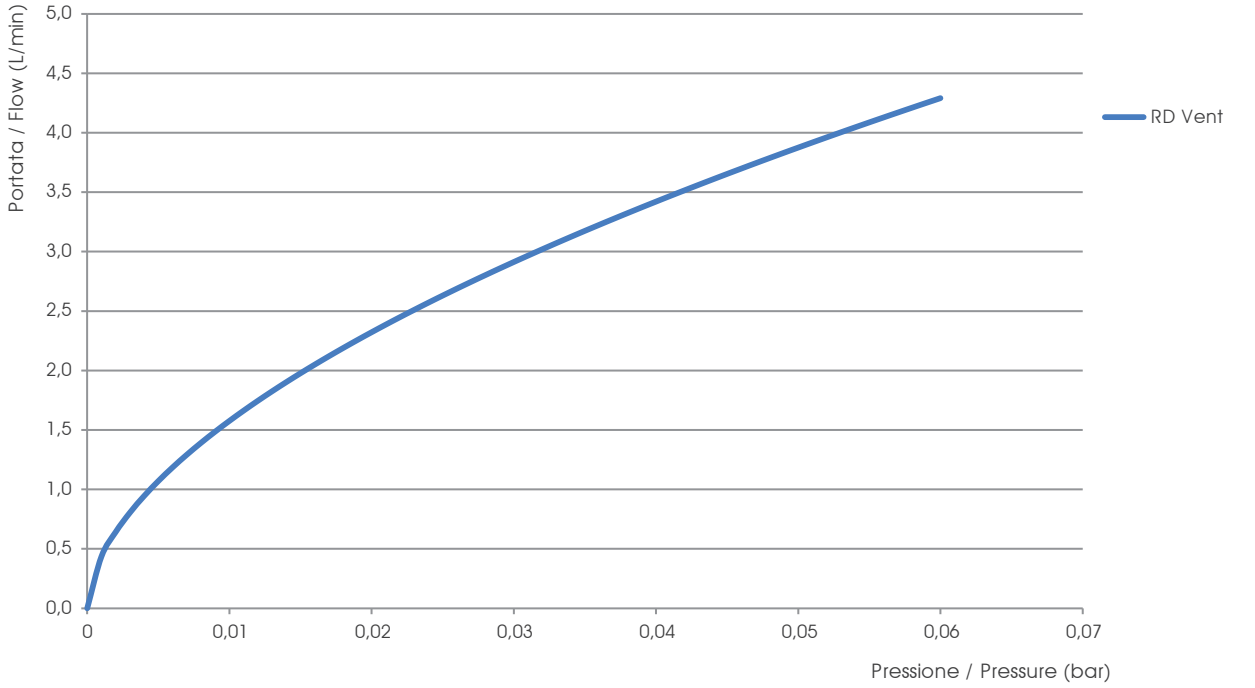
RD Vent Series



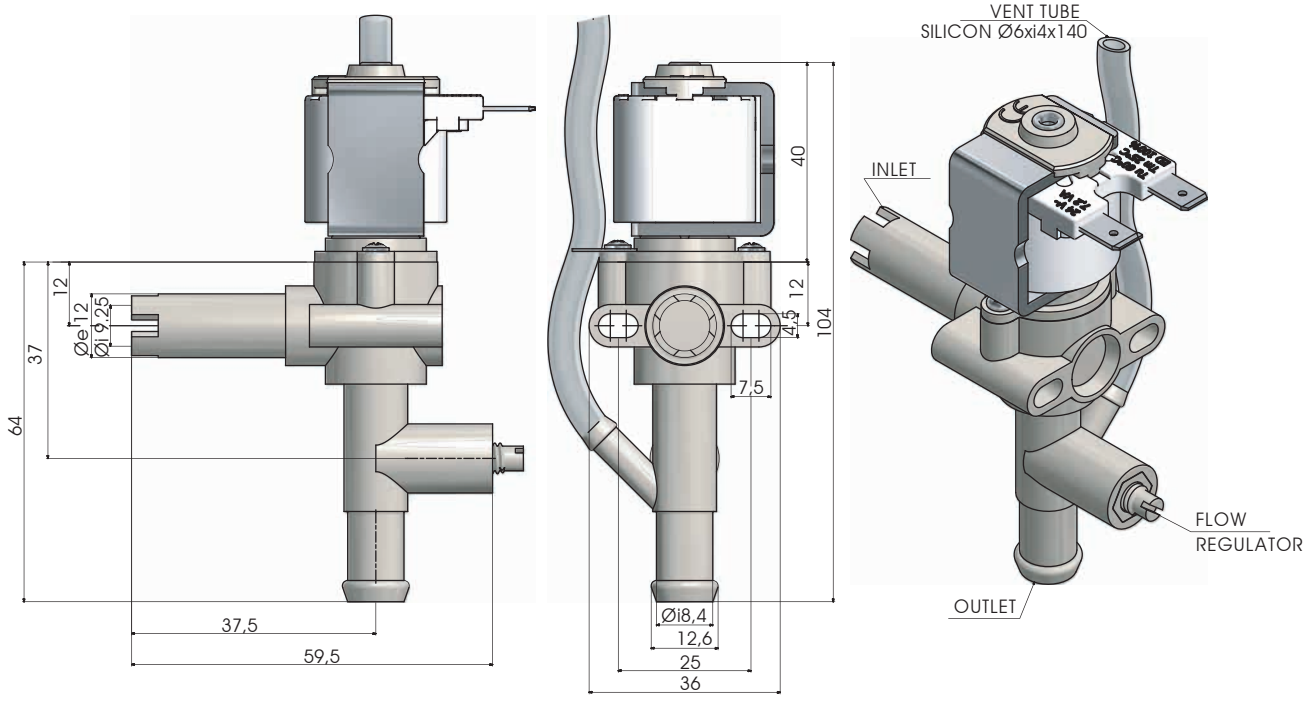
Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Temp. ambiente Room temperature	Temp. fluido Fluid temperature
RDA001081000	Codolo 10 mm	PG 10,5 mm	160	8 mm	0 - 0,06 bar	60° C	98° C

Legenda / Key: PG = Portagomma / Hose tail Codolo = Spigot

GRAFICO PORTATA SERIE RD VENT / FLOW RATE CHART RD VENT SERIES



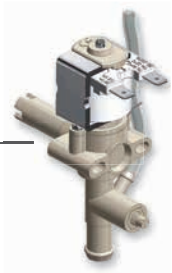
RDA001081000



Misure in millimetri - Dimensions in millimeters

Serie RD Vent - Solenoidi

RD Vent Series - Solenoids



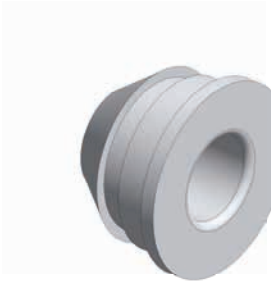
						Connessioni Connections		Controllo Control	
Codice progress./ Progress code	**Tensione Voltage**	**Frequenza Frequency**	**Potenza mantenim. Holding Power**	**Assorbim. (mA) in mantenimento / Holding Current**	**ED (funzionamento) (duty cycle)**	**Faston (F), Cavi (wires) Unipolari (C)**	**Cavi (wires) bipolari (in mm)**	**NC**	**NA* (NO)**
1	24 V DC	=	14 W	600 mA	/	F, C	620, 2500	✓	
2	12 V DC	=	14 W	1100 mA	/	F, C	620, 2500	✓	

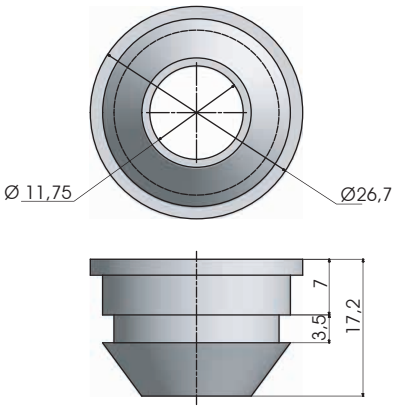
(*) I solenoidi NA non sono disponibili con cavi bipolari / NO solenoids are not available with bipolar wires

Legenda / Key:
NC: Normalmente Chiusa / Normally Closed
NA: Normalmente Aperta / Normally Open
NB: Bistabile / Latching
GW: Glow Wire
Faston: IP X0

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

Dettaglio guarnizione — Gasket detail





Misure in millimetri - Dimensions in millimeters

Nulla di grande è mai stato fatto senza passione

Nothing great has ever been done without passion

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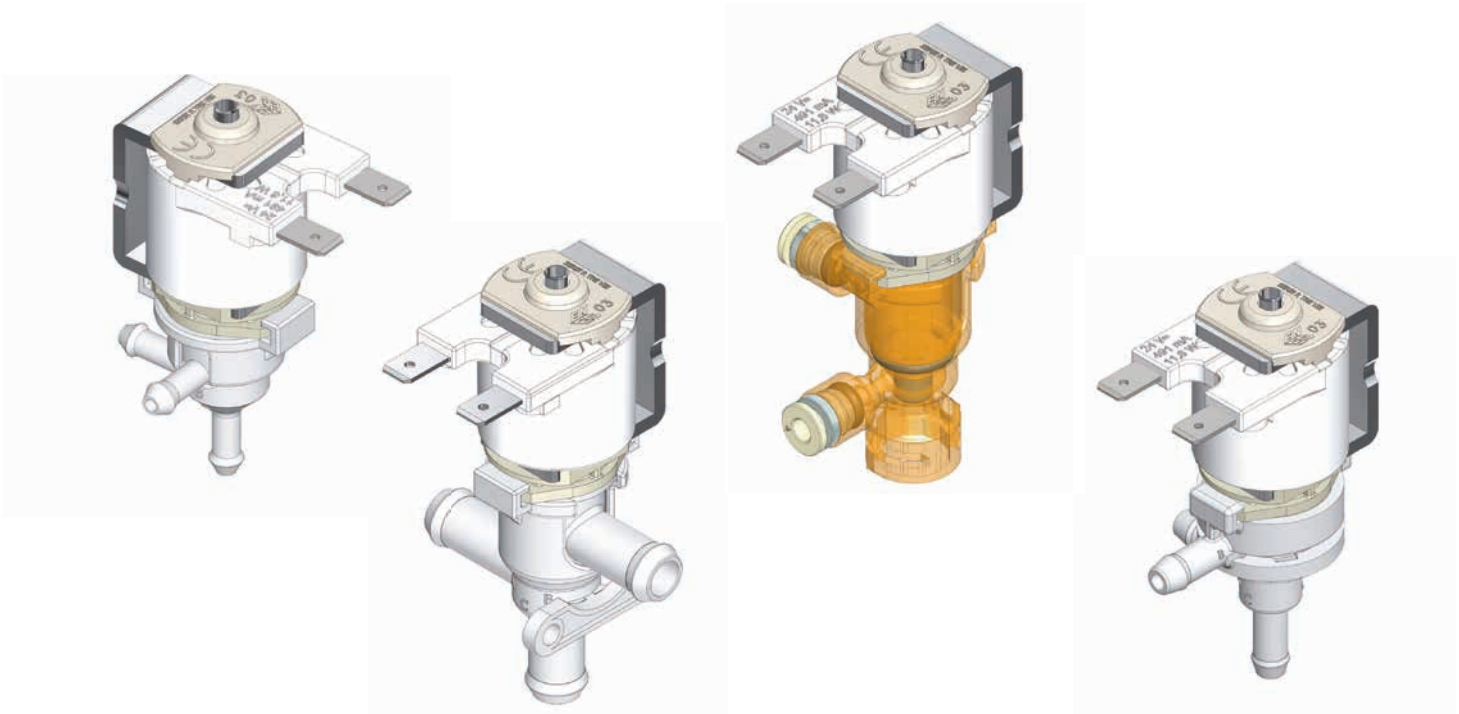
Serie R - 3/2 vie di scambio

R Series - 3/2 way exchange valve



CARATTERISTICHE FISICHE

Corpo valvola:	POM; PPH; PPSU
Membrana:	LSR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Baionetta

PHYSICAL SPECIFICATIONS

Valve body:	POM; PPH; PPSU
Diaphragm:	LSR
Core:	Stainless steel
Coils:	F class (155°)
Assembly:	Bayonet

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	Max 4 bar
Contropressione:	Max 4 bar
Temp. ambiente:	Tu 60° C - Tu 90° C
Temperatura fluido:	Tm 60° C - Tm 90° C (3 ON - 5 OFF)
Diametro nominale:	DN 2 mm - 2,5 mm - 4 mm - 6 mm
Comando:	3 vie di scambio
Direzione del fluido:	Bidirezionale

WORKING SPECIFICATIONS

Working pressure:	Max 4 bar
Room temperature:	Max 4 bar
Room temperature:	Tu 60° C - Tu 90° C
Fluid temperature:	Tm 60° C - Tm 90° C (3 ON - 5 OFF)
Orifice:	ND 2 mm - 2,5 mm - 4 mm - 6 mm
Control:	3-way exchange
Fluid direction:	Bidirectional

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm

ELECTRICAL CONNECTIONS

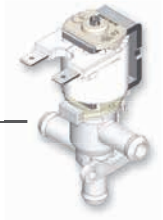
Faston 6,3 x 0,8 mm

CERTIFICAZIONI / CERTIFICATIONS

CE

Serie R - 3/2 vie di scambio

R Series - 3/2 way exchange valve



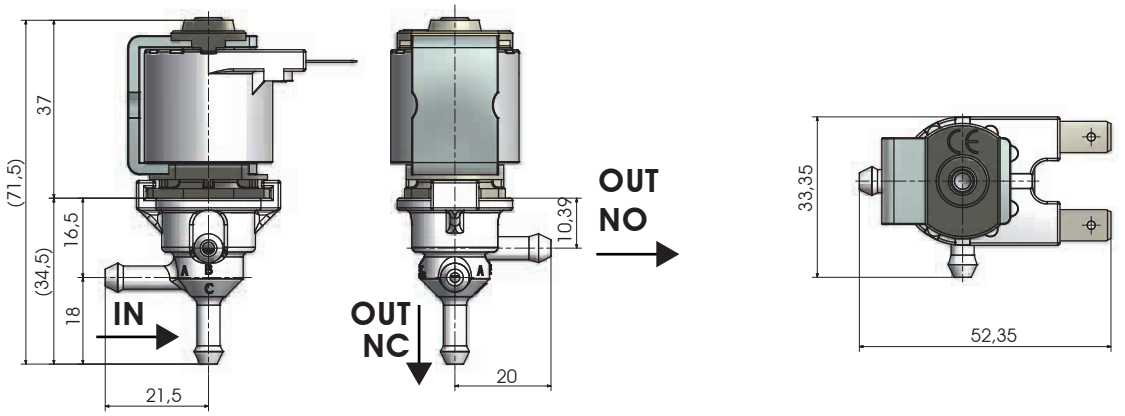
Modello Model	IN	OUT NC	OUT NA/NO	Corpo valvola Valve body	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure
R100322020PG5	PG 5 mm	PG 5 mm	PG 5 mm	POM	2 mm	0 - 0,5 bar	0 - 0,1 bar

Legenda / Key:
PG = Portagomma / Hose tail

M.O.Q.

Serie R - 3 vie di scambio	108 pcs
R Series - 3 way exchange	108 pcs

R1



Misure in millimetri - Dimensions in millimeters

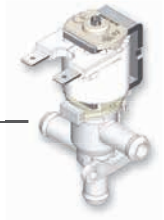
			Potenza Power		Assorbimento Consuption			
Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim. / Holding Power	Potenza di spunto / In Rush Power	Assorbim. (mA) in mantenimento/ Holding Current	Assorbim (mA) in spunto / In Rush Current	cosφ	ED (funzionamento) (duty cycle)
1	24 V DC	=	11,80 W	/	490 mA	/	/	3 min ON 5 min OFF
2	230 V AC	50 HZ 60 HZ	6,00 VA 5,55 VA	9,60 VA 9,10 VA	29 mA 24 mA	42 mA 38 mA	0,70 0,69	3 min ON 5 min OFF
3	110 V AC	50 HZ 60 HZ	5,00 VA 4,45 VA	8,85 VA 8,10 VA	48 mA 39 mA	78 mA 72 mA	0,64 0,62	3 min ON 5 min OFF
4	12 V DC	=	8,42 W	/	700 mA	/	/	3 min ON 5 min OFF

Legenda / Key:
ED Funzionamento / Duty Cycle
Approvazioni /Approvals: ENEC, UL, GW
Faston: IP X0
Cavi / Wires: IP 55

Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil insulation class: F
Tipo faston (Faston type): 6,3 × 0,8 mm

Serie R - 3/2 vie di scambio

R Series - 3/2 way exchange valve



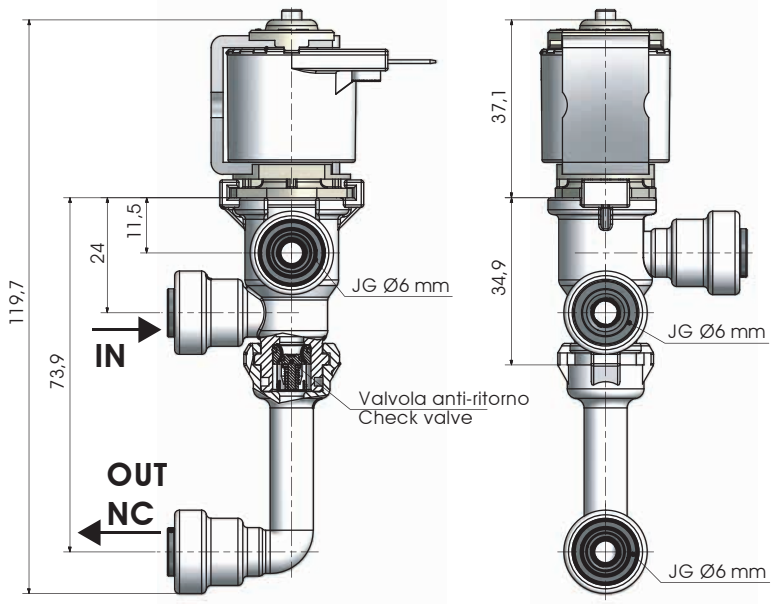
Modello Model	IN	OUT NC	OUT NA/NO	Corpo valvola Valve body	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure
R200326060JG6	JG 6 mm	JG 6 mm	JG 6 mm	POM	6 mm	0 - 0,5 bar	0 - 0,1 bar
R201326060PG65	PG 6,5 mm	PG 6,5 mm	PG 6,5 mm	PPH	4 mm	0 - 0,5 bar	0 - 0,1 bar

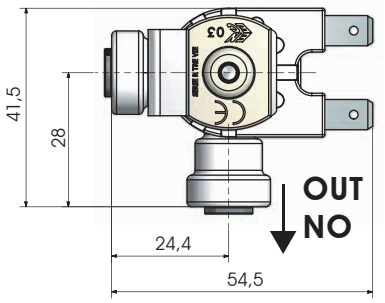
Legenda / Key:
PG = Portagomma / Hose tail JG = Attacco rapido / Quick coupling

M.O.Q.

Serie R - 3 vie di scambio	108 pcs
R Series - 3 way exchange	108 pcs

R2





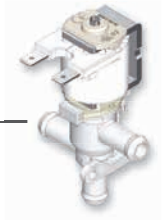
Misure in millimetri - Dimensions in millimeters

			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	Assorbim. (mA) in spunto / In Rush Current	cosφ	ED (funzionamento) (duty cycle)	Approvazioni Approvals
1	24 V DC	=	11,80 W	/	490 mA	/	/	3 min ON 5 min OFF	GW
2	230 V AC	50 HZ 60 HZ	6,00 VA 5,55 VA	9,60 VA 9,10 VA	29 mA 24 mA	42 mA 38 mA	0,70 0,69	3 min ON 5 min OFF	GW
3	110 V AC	50 HZ 60 HZ	5,00 VA 4,45 VA	8,85 VA 8,10 VA	48 mA 39 mA	78 mA 72 mA	0,64 0,62	3 min ON 5 min OFF	GW
4	12 V DC	=	8,42 W	/	700 mA	/	/	3 min ON 5 min OFF	GW
5	24 V DC	=	6,3 W	/	265 mA	/	/	100%	UL

Legenda / Key:
NC: Normalmente Chiusa / NormallyClosed
NA: Normalmente Aperta / NormallyOpen
NB: Bistabile / Latching
GW: Glow Wire
ED Funzionamento / DutyCycle
Approvazioni / Approvals: UL, GW
Faston: IP X0
Cavi / wires: IP 55
Classe isolamento / Insulation class: II
Classe isolamento bobina /Coil insulation class: F
Tipo faston / Faston type: 6,3 × 0,8 mm

Serie R - 3/2 vie di scambio

R Series - 3/2 way exchange valve



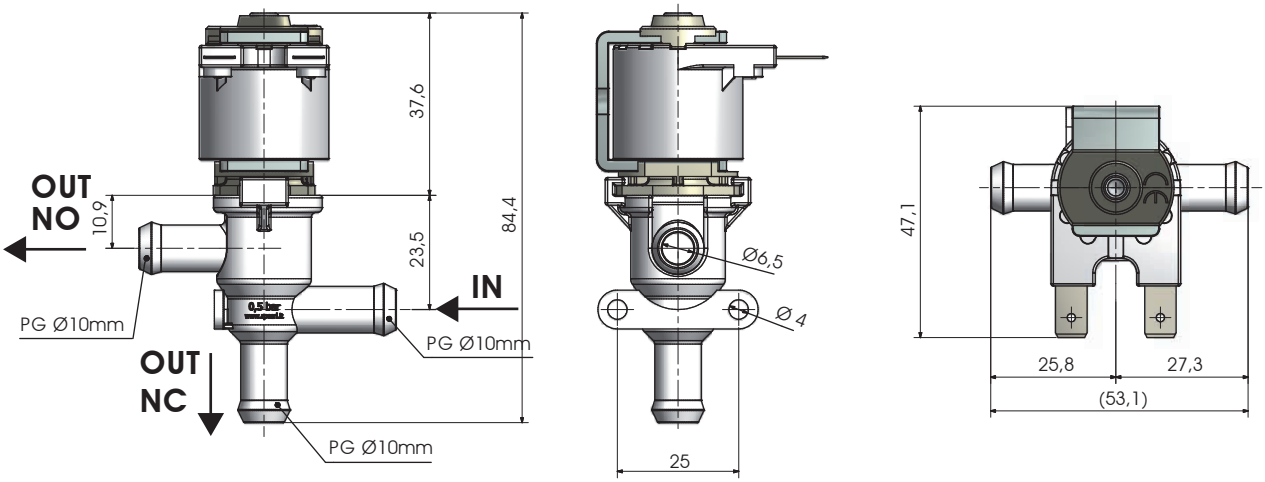
Modello Model	IN	OUT NC	OUT NA/NO	Corpo valvola Valve body	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure
R200326060PG10	PG 10 mm	PG 10 mm	PG 10 mm	POM	6 mm	0 - 0,5 bar	0 - 0,1 bar

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

M.O.Q.

Serie R - 3 vie di scambio	108 pcs
R Series - 3 way exchange	108 pcs

R2



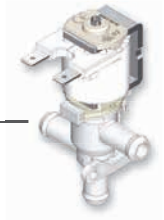
Misure in millimetri - Dimensions in millimeters

			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	Assorbim. (mA) in spunto / In Rush Current	cosφ	ED (funzionamento) (duty cycle)	Approvazioni Approvals
1	24 V DC	=	11,80 W	/	490 mA	/	/	3 min ON 5 min OFF	GW
2	230 V AC	50 HZ 60 HZ	6,00 VA 5,55 VA	9,60 VA 9,10 VA	29 mA 24 mA	42 mA 38 mA	0,70 0,69	3 min ON 5 min OFF	GW
3	110 V AC	50 HZ 60 HZ	5,00 VA 4,45 VA	8,85 VA 8,10 VA	48 mA 39 mA	78 mA 72 mA	0,64 0,62	3 min ON 5 min OFF	GW
4	12 V DC	=	8,42 W	/	700 mA	/	/	3 min ON 5 min OFF	GW

Legenda / Key:
NC: Normalmente Chiusa / NormallyClosed
NA: Normalmente Aperta / NormallyOpen
NB: Bistabile / Latching
GW: Glow Wire
ED Funzionamento / DutyCycle
Approvazioni / Approvals: GW
Faston: IP X0
Cavi / Wires: IP 55
Classe isolamento / Insulation class: II
Classe isolamento bobina /Coil insulation class: F
Tipo faston / Faston type: 6,3 × 0,8 mm

Serie R - 3/2 vie di scambio

R Series - 3/2 way exchange valve



Modello Model	IN	OUT NC	OUT NA/NO	Corpo valvola Valve body	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure
R211326060PG65	PG 6,5 mm	PG 6,5 mm	PG 6,5 mm	PPH	4 mm	0 - 0,5 bar	0 - 0,5 bar

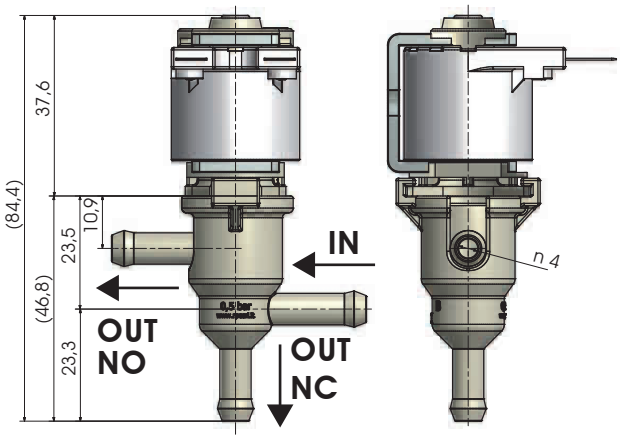
Legenda / Key:

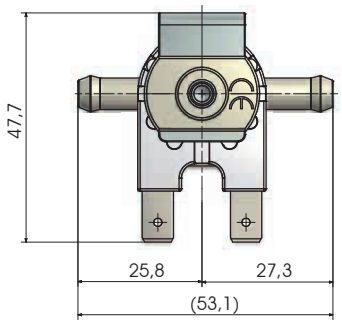
PG = Portagomma / Hose tail JG = Attacco rapido / Quick coupling

M.O.Q.

SERIE R - 3 vie di scambio	108 pcs
R Series - 3 way exchange	108 pcs

R2

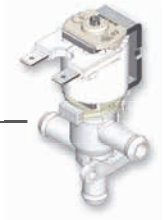




			Potenza Power	Assorbimento Consuption			
Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim. / Holding Power	Assorbim. (mA) in mantenimento/ Holding Current	cosφ	ED (funzionamento) (duty cycle)	Approvazioni Approvals
1	24 V DC	=	6,30 W	265 mA	/	100%	ENEC
1a	24 V DC	=	6,30 W	265 mA	/	100%	UL
2	220/240V AC	50 HZ 60 HZ	6,6 VA	29 mA 24 mA	0,70 0,69	100%	UL
3	100/120V AC	50 HZ 60 HZ	7,7 VA	48 mA 39 mA	0,64 0,62	100%	UL
4	12V DC	=	5,4 W	440 mA	/	100%	UL
5	24V AC	50 HZ 60 HZ	7,24 VA	302 mA	0,65 0,60	100%	UL

Serie R - 3/2 vie di scambio

R Series - 3/2 way exchange valve



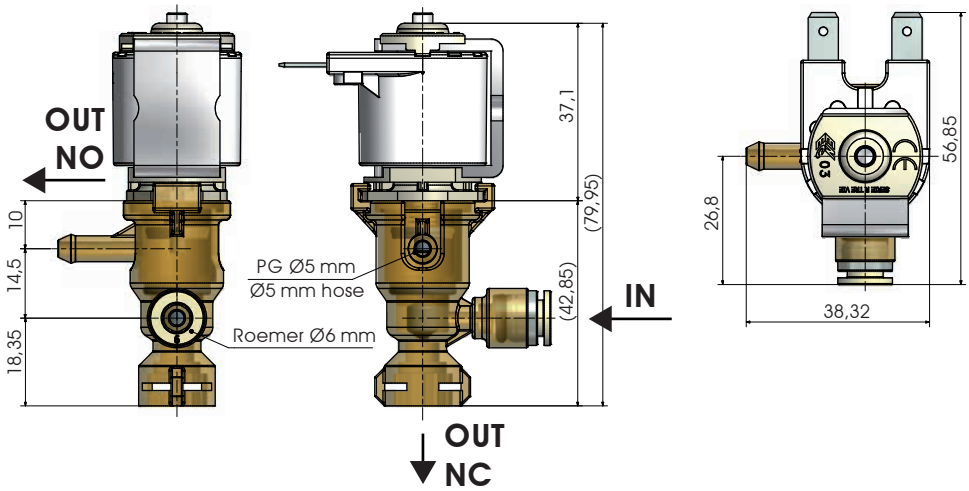
Modello Model	IN	OUT NC	OUT NA/NO	Corpo valvola Valve body	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure
R2003260PGRM6	Roemer 6 mm	Forchetta	PG 5 mm	PPSU	2,5 mm	0 - 4 bar	0 - 4 bar
R200324040RM4	Roemer 4 mm	Forchetta	Roemer 4 mm	PPSU	2,5 mm	0 - 4 bar	0 - 4 bar
R200324060RM46	Roemer 4 mm	Forchetta	Roemer 6 mm	PPSU	2,5 mm	0 - 4 bar	0 - 4 bar

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

M.O.Q.

Serie R - 3 vie di scambio	108 pcs
R Series - 3 way exchange	108 pcs

R2



Misure in millimetri - Dimensions in millimeters

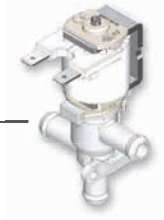
			Potenza Power		Assorbimento Consuption			
Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim. / Holding Power	Potenza di spunto / In Rush Power	Assorbim. (mA) in mantenimento/ Holding Current	Assorbim (mA) in spunto / In Rush Current	cosφ	ED (funzionamento) (duty cycle)
1	24 V DC	=	11,80 W	/	490 mA	/	/	3 min ON 5 min OFF
2	230 V AC	50 HZ 60 HZ	6,00 VA 5,55 VA	9,60 VA 9,10 VA	29 mA 24 mA	42 mA 38 mA	0,70 0,69	3 min ON 5 min OFF
3	110 V AC	50 HZ 60 HZ	5,00 VA 4,45 VA	8,85 VA 8,10 VA	48 mA 39 mA	78 mA 72 mA	0,64 0,62	3 min ON 5 min OFF
4	12 V DC	=	8,42 W	/	700 mA	/	/	3 min ON 5 min OFF

Legenda / Key:
ED Funzionamento / Duty Cycle
Approvazioni /Approvals: ENEC, UL, GW
Faston: IP X0
Cavi / Wires: IP 55

Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil insulation class: F
Tipo faston (Faston type): 6,3 × 0,8 mm

Serie R - 3/2 vie di scambio

R Series - 3/2 way exchange valve



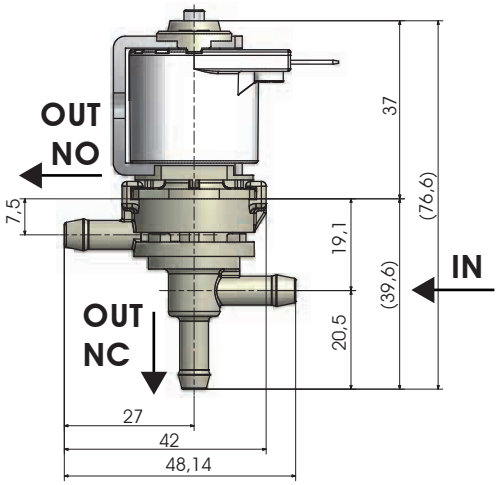
Modello Model	IN	OUT NC	OUT NA/NO	Corpo valvola Valve body	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure
R400322020PG6	PG 6 mm	PG 6 mm	PG 6 mm	POM	2 mm	0 - 0,5 bar	0 - 0,1 bar

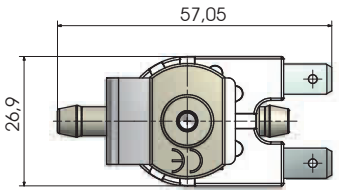
Legenda / Key:
PG = Portagomma / Hose tail

M.O.Q.

Serie R - 3 vie di scambio	108 pcs
R Series - 3 way exchange	108 pcs

R4





Misure in millimetri - Dimensions in millimeters

			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	Assorbim (mA) in spunto / In Rush Current	cosφ	ED (funzionamento) (duty cycle)
1	24 V DC	=	11,80 W	/	490 mA	/	/	3 min ON 5 min OFF
2	230 V AC	50 HZ 60 HZ	6,00 VA 5,55 VA	9,60 VA 9,10 VA	29 mA 24 mA	42 mA 38 mA	0,70 0,69	3 min ON 5 min OFF
3	110 V AC	50 HZ 60 HZ	5,00 VA 4,45 VA	8,85 VA 8,10 VA	48 mA 39 mA	78 mA 72 mA	0,64 0,62	3 min ON 5 min OFF
4	12 V DC	=	8,42 W	/	700 mA	/	/	3 min ON 5 min OFF

Legenda / Key:
ED Funzionamento / Duty Cycle
Approvazioni /Approvals: ENEC, UL, GW
Faston: IP X0
Cavi / Wires: IP 55

Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil insulation class: F
Tipo faston (Faston type): 6,3 × 0,8 mm

Nulla di grande è mai stato fatto senza passione

Nothing great has ever been done without passion

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Seconda Serie

Second Series

CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR
Core:	Stainless steel
Coils:	F Class (155°)
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,5 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 60° C - ED 100%
Diametro nominale:	DN 20 mm - DN 25 mm - DN 32 mm
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0,5 - 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 60° C - ED 100%
Orifice:	ND 20 mm - ND 25 mm - ND 32 mm
Control:	NC; NO; Latching
Fluid direction:	Unidirectional

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 600 mm
Cavi bipolari 5000 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 600 mm
Bipolar wires 5000 mm

CERTIFICAZIONI / CERTIFICATIONS

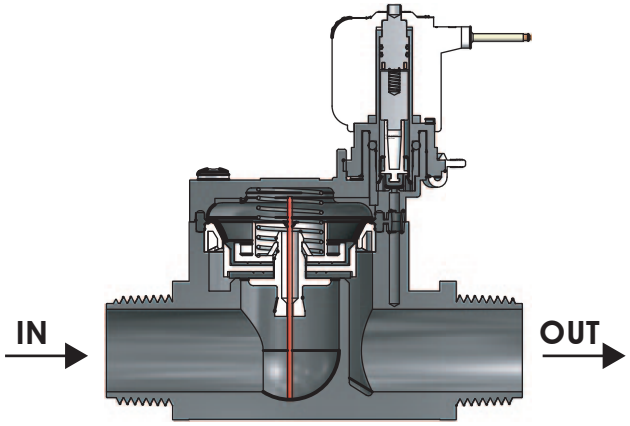
WRAS APPROVED PRODUCT

Seconda Serie

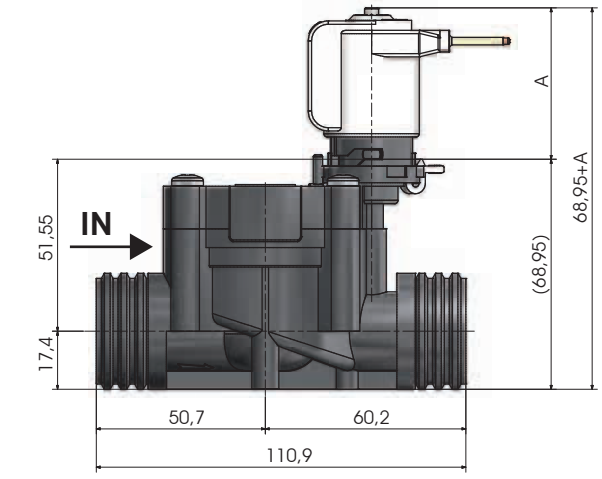
Second Series

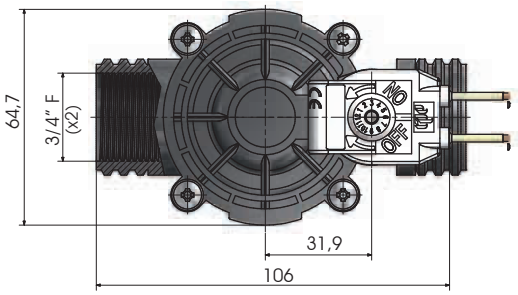
Modello Model	IN=OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Altezza Height	Lunghezza Length	Larghezza Width
620	3/4" F	24	20 mm	115 mm	111 mm	65 mm
621	3/4" M	24	20 mm	114 mm	85 mm	65 mm
720	1" F	24	20 mm	125 mm	127 mm	65 mm
721	1" M	24	20 mm	125 mm	126 mm	65 mm
821	1" 1/4 M	24	20 mm	126 mm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

Sistema auto-pulente — Self-cleaning system



620





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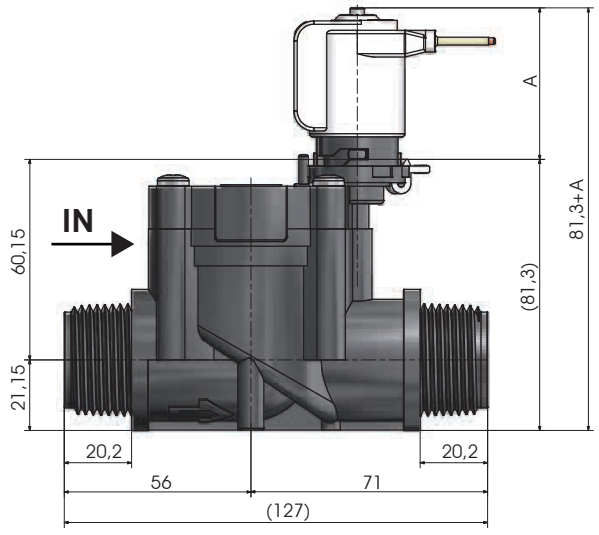
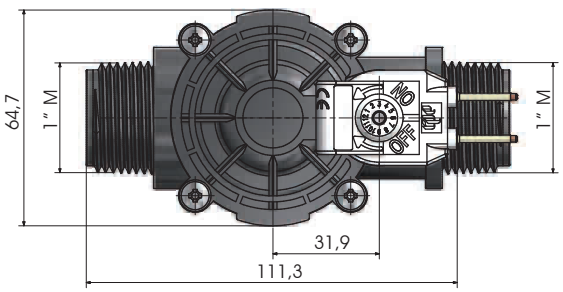


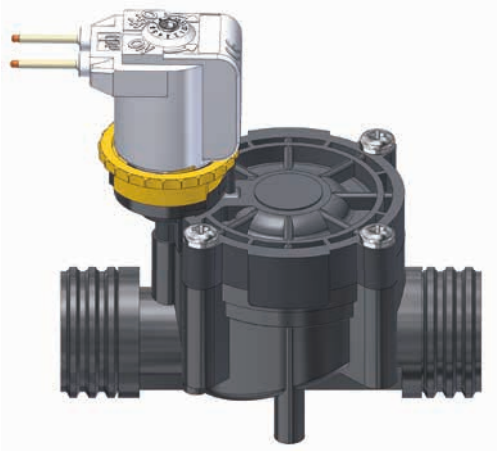


Misure in millimetri - Dimensions in millimeters

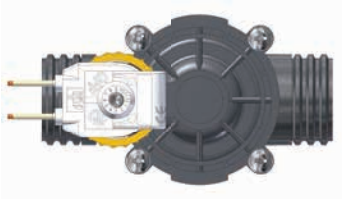
Seconda Serie

Second Series

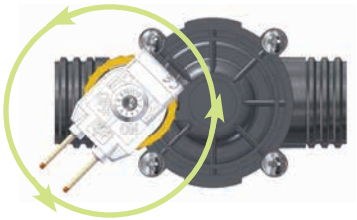
Schema di rimozione bobina Scheme for coil removal

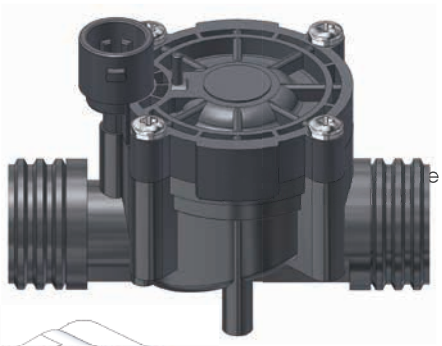


1 - Posizione di partenza
1 - Starting position

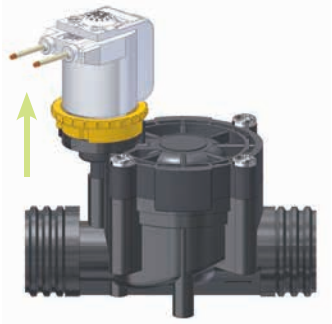


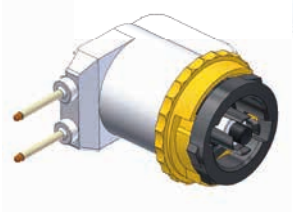
2 - Ruotare solenoide
2 - Rotate solenoid



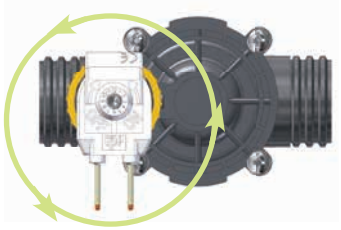


3 - Sollevare anello di bloccaggio giallo
3 - Pull-up safety yellow ring





4 - Ruotare solenoide
4 - Rotate solenoid



Seconda Serie - Solenoidi

Second Series - Solenoids

			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	cosφ	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	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 VA 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	L9VDC	=	3,7 W	/	400 mA	/	/	Latching	F, C	2500		/	/
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, 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		✓	✓

(**) i solenoidi NA non sono disponibili con cavi bipolari / NO solnoids are not avaible with bipolar wires

Legenda / Key:
NC: Normalmente Chiusa / Normally Closed
NA: Normalmente Aperta / Normally Open
NB: Bistabile / Latching
GW: Glow Wire
ED Funzionamento / Duty Cycle = 100%

Faston: IP X0
Cavi / Wires: IP 55
Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil Insullation class: F
Tipo Faston / Faston type: 6,3 x 0,8 mm

Perdita di carico

Pressure drop

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

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Terza Serie

Third Series

CARATTERISTICHE FISICHE

Corpo valvola:	PA 66 - 30% FV
Membrana:	NBR
Nucleo:	Acciaio Inox
Bobine:	Classe F (155°)
Assemblaggio:	Con viti, ispezionabile

PHYSICAL SPECIFICATIONS

Valve body:	PA 66 - 30% GF
Diaphragm:	NBR
Core:	Stainless steel
Coils:	F Class (155°)
Assembly:	With screws, serviceable

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,5 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 60° C - ED 100%
Diametro nominale:	DN da 15 mm a 50 mm
Comando:	NC; NA; Bistabile
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0,5 - 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 60° C - ED 100%
Orifice:	ND from 15 mm to 50 mm
Control:	NC; NO; Latching
Fluid direction:	Unidirectional

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm
Cavi unipolari max 600 mm
Cavi bipolari 5000 mm

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm
Unipolar wires max 600 mm
Bipolar wires 5000 mm

CERTIFICAZIONI / CERTIFICATIONS

WRAS APPROVED PRODUCT

Terza Serie

Third Series

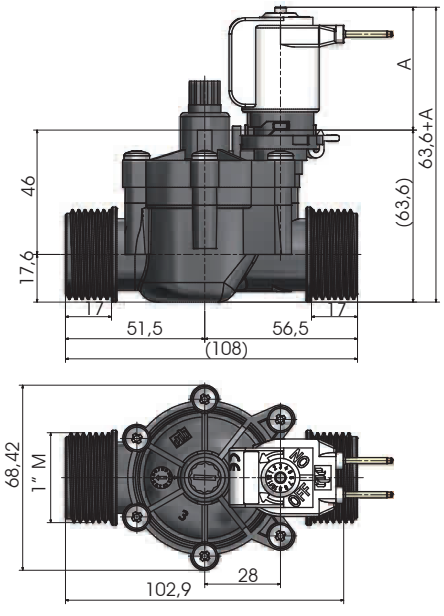
Modello Model	IN=OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Altezza Height	Lunghezza Length	Larghezza Width
530	1/2" F	24	15 mm	110 mm	114 mm	68 mm
630	3/4" F	24	20 mm	110 mm	114 mm	68 mm
631	3/4" M	24	20 mm	110 mm	114 mm	68 mm
730	1" F	24	25 mm	128 mm	128 mm	90 mm
731	1" M	24	25 mm	110 mm	100 mm	68 mm
830	1" 1/4 F	24	32 mm	128 mm	128 mm	90 mm
930	1" 1/2 F	12	40 mm	145 mm	137 mm	90 mm
1030	2" F	6	50 mm	180 mm	165 mm	120 mm
1131	3" M	6	50 mm	180 mm	170 mm	120 mm

Terza Serie con filetti in ottone

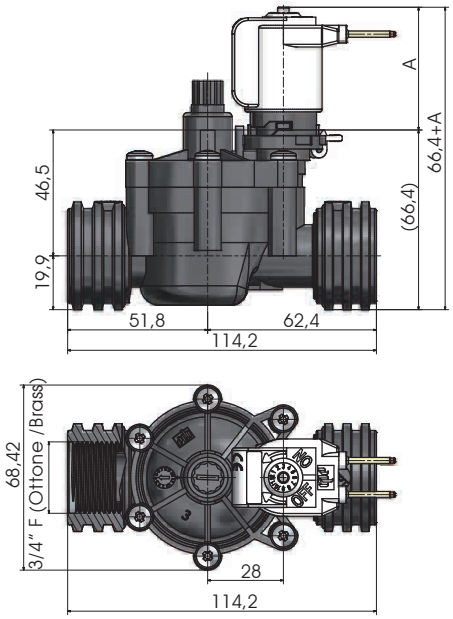
Third Series with brass threads

Modello Model	IN=OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Altezza Height	Lunghezza Length	Larghezza Width
533	1/2" F	24	15 mm	110 mm	114 mm	68 mm
633	3/4" F	24	20 mm	110 mm	114 mm	68 mm
733	1" F	24	25 mm	128 mm	128 mm	90 mm
833	1" 1/4 F	24	32 mm	128 mm	128 mm	90 mm
933	1" 1/2 F	12	40 mm	145 mm	137 mm	90 mm
1033	2" F	6	50 mm	180 mm	165 mm	120 mm

731



633



Misure in millimetri - Dimensions in millimeters

Terza Serie con filtro

Third Series with filter

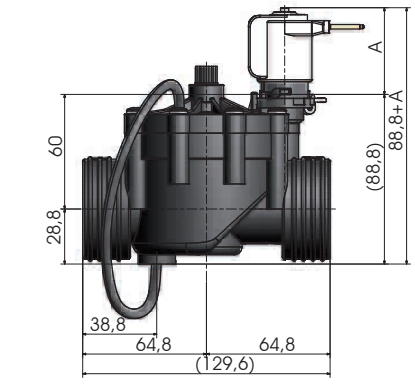
Modello Model	IN=OUT	M.O.Q. (pcs)	DN ND Ø	Altezza Height	Lunghezza Length	Larghezza Width	Filetti ottone Brass threads
730 NF	1" F	12	25 mm	128 mm	128 mm	90 mm	
733 NF	1" F	12	25 mm	128 mm	128 mm	90 mm	✓
830 NF	1" 1/4 F	12	32 mm	128 mm	128 mm	90 mm	
833 NF	1" 1/4 F	12	32 mm	128 mm	128 mm	90 mm	✓
930 NF	1" 1/2 F	12	40 mm	145 mm	137 mm	90 mm	
933 NF	1" 1/2 F	12	40 mm	145 mm	137 mm	90 mm	✓
1030 NF	2" F	6	50 mm	180 mm	165 mm	120 mm	
1033 NF	2" F	6	50 mm	180 mm	165 mm	120 mm	✓
1131 NF	3" M	6	50 mm	180 mm	170 mm	120 mm	

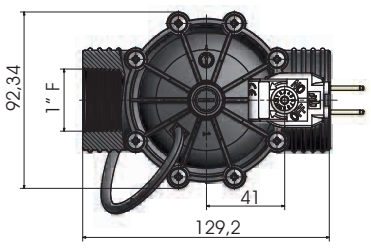
Terza Serie bassa pressione - (0,05 - 1 bar)

Third Series low pressure - (0,05 - 1 bar)

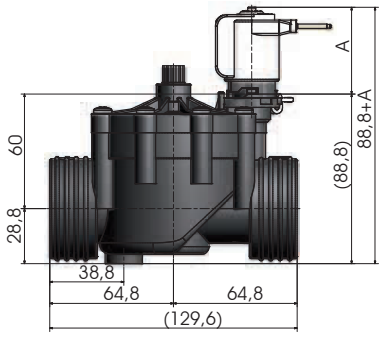
Modello Model	IN=OUT	M.O.Q. (pcs)	DN ND Ø	Altezza Height	Lunghezza Length	Larghezza Width	Filetti ottone Brass threads
730 A	1" F	12	25 mm	128 mm	128 mm	90 mm	
733 A NC	1" F	12	25 mm	128 mm	128 mm	90 mm	✓
830 A	1" 1/4 F	12	32 mm	128 mm	128 mm	90 mm	
833 A NC	1" 1/4 F	12	32 mm	128 mm	128 mm	90 mm	✓

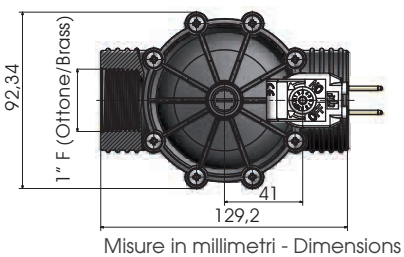
730 NF





733 A NC



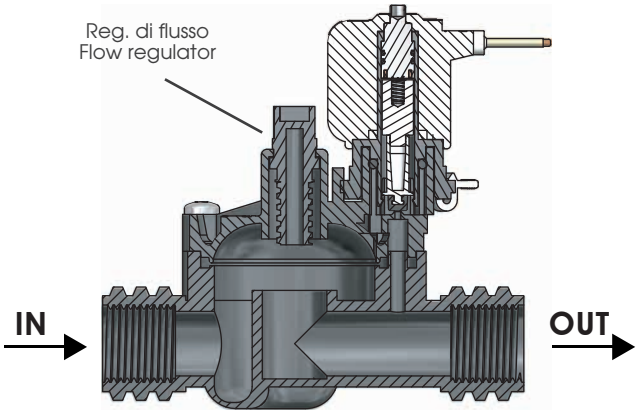


Misure in millimetri - Dimensions in millimeters

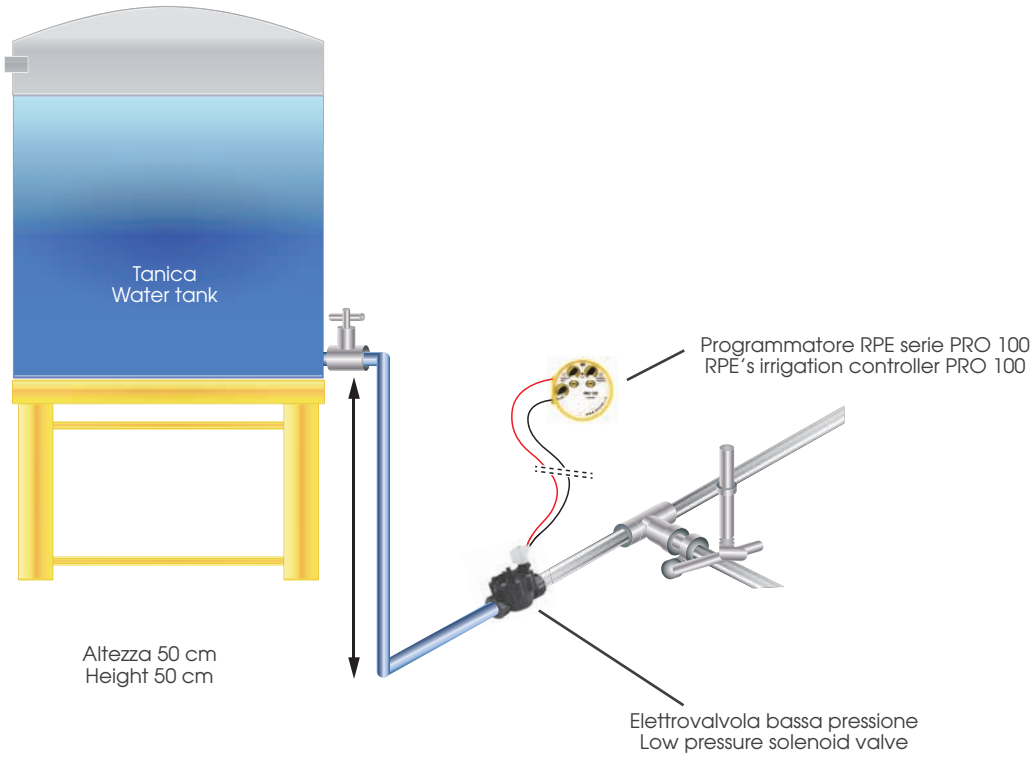
Terza Serie

Third Series

Dettaglio Terza Serie — Third Series Detail



Schema di utilizzo bassa pressione — Low pressure scheme of use



Perdita di carico

Pressure drop

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

Terza Serie - Solenoidi

Third Series - Solenoids

			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**	**cosφ**	**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	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 VA 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	L9VDC	=	3,7 W	/	400 mA	/	/	Latching	F, C	2500		/	/
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, 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		✓	✓

(**) i solenoidi NA non sono disponibili con cavi bipolari / NO solnoids are not avaible with bipolar wires

Legenda / Key:
NC: Normalmente Chiusa / Normally Closed
NA: Normalmente Aperta / Normally Open
NB: Bistabile / Latching
GW: Glow Wire
ED Funzionamento / Duty Cycle = 100%

Faston: IP X0
Cavi / Wires: IP 55
Classe isolamento / Insulation class: II
Classe isolamento bobina / Coil Insullation class: F
Tipo Faston / Faston type: 6,3 x 0,8 mm

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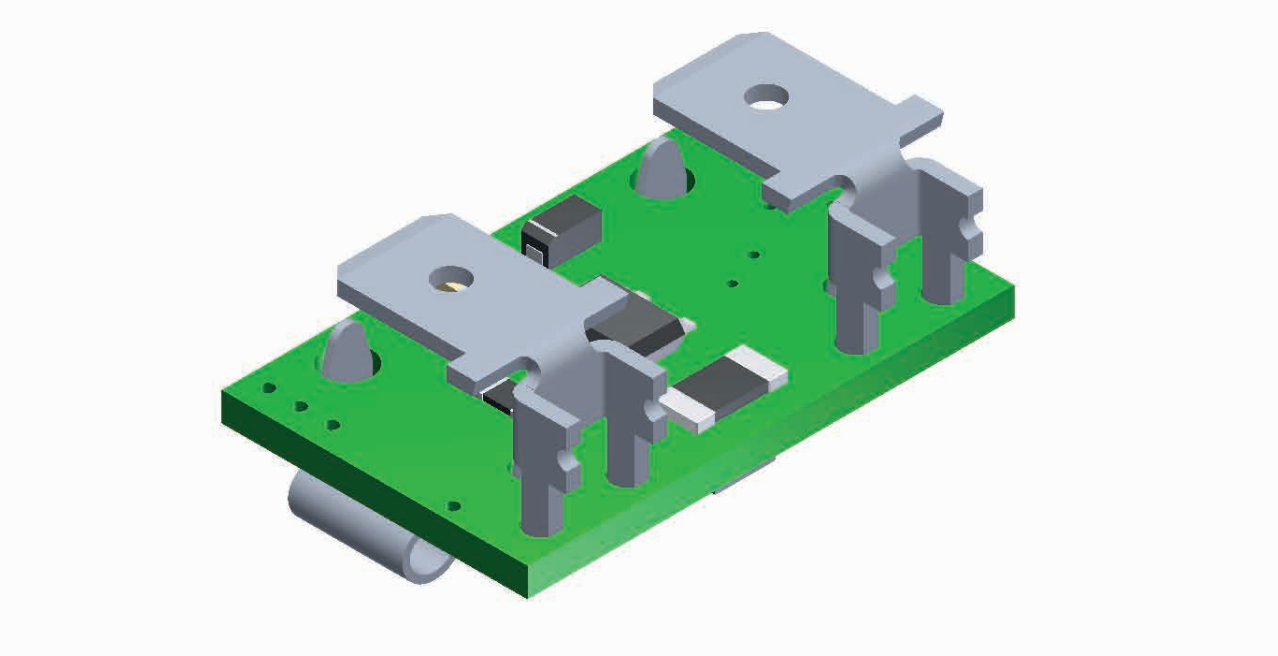
PWM

PWM



FUNZIONALITÀ SOFTWARE

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%

FUNCTIONALITY OF SOFTWARE

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%

CARATTERISTICHE DI LAVORO

Temperatura ambiente:	0 ÷ 80°C
Tensione di alimentazione	24 V DC ±20%
Assorbimento della scheda	16mA
Potenza massima	30 W
Corrente massima	1 A
Corrente di picco (10 ms)	3 A
Tipo di uscita	Mosfet drain aperto
Frequenza PWM	15 kHz ±5%

WORKING SPECIFICATIONS

Room temperature:	0 ÷ 80°C
Supply voltage	24 V DC±20%
Current consumption of electronic board	16mA
Maximum power supply	30 W
Maximum current supply	1 A
Peak current (10 ms)	3 A
Output type	Mosfet open drain
PWM frequency	15 kHz ±5%

CONNESSIONI ELETTRICHE

Ingresso:	Faston femmina
Uscita:	Faston maschio

ELECTRICAL CONNECTIONS

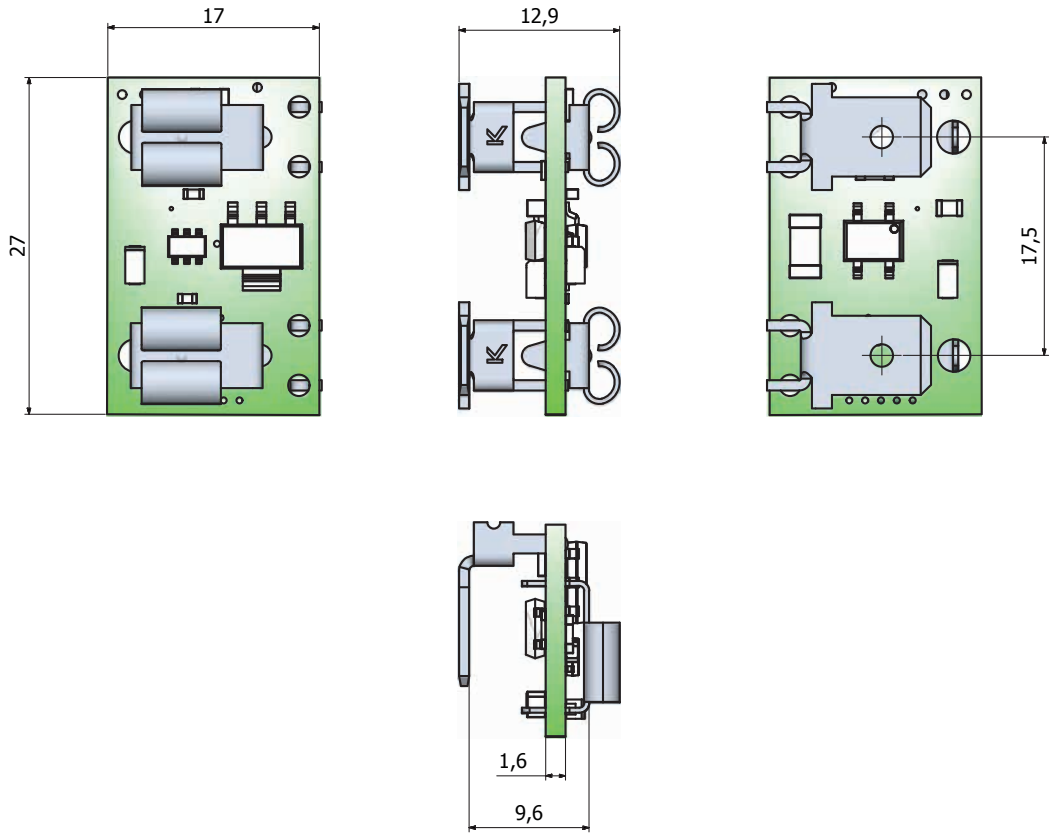
Input:	Female faston
Output:	Male faston

CERTIFICAZIONI / CERTIFICATIONS

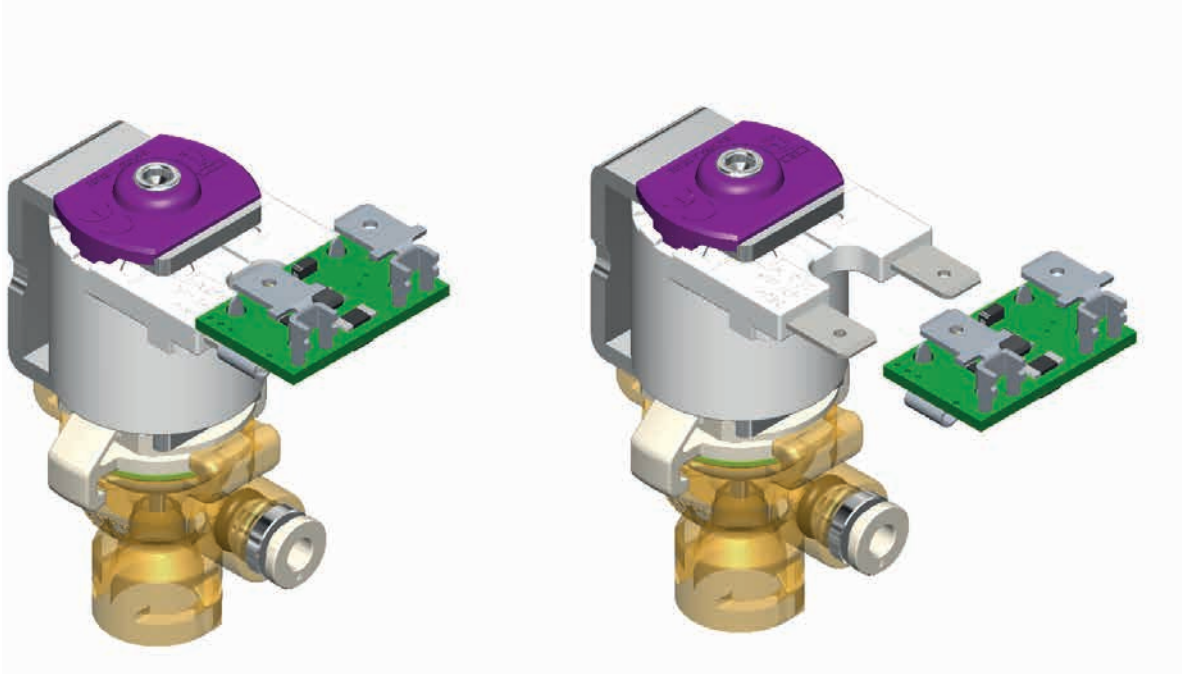
PWM

PWM

PWM PWM



PWM assemblata PWM assembled



Misure in millimetri - Dimensions in millimeters

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Cartuccia versionabile

Adjustable cartridge fitting

CARATTERISTICHE FISICHE

Corpo:	Policarbonato (PC) / PEI
Altri componenti:	NBR; LSR; POM

PHYSICAL SPECIFICATIONS

Body:	Polycarbonate (PC) / PEI
Other components:	NBR; LSR; POM

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C
Diametro nominale:	DN 7 mm
Direzione del fluido:	Unidirezionale

WORKING SPECIFICATIONS

Working pressure:	0 - 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C
Orifice:	ND 7 mm
Fluid direction:	Unidirectional

CERTIFICAZIONI / CERTIFICATIONS

DIN EN 61770; EN 61770:2009; IEC 61770:2008

Cartuccia versionabile

Adjustable cartridge fitting

Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Check valve (IN-OUT)	Riduttore Reducer (OUT)
F3143000	JG 8 mm	JG 8 mm	200	7 mm	✓	✓
F3144000	JG 8 mm	JG 10 mm	200	7 mm	✓	✓
F3145000	JG 10 mm	JG 8 mm	200	7 mm	✓	✓
F3146000	JG 10 mm	JG 10 mm	200	7 mm	✓	✓

Legenda / Key: JG = Attacco rapido / Quick coupling

Gamma di riduttori di portata — Flow restrictors range

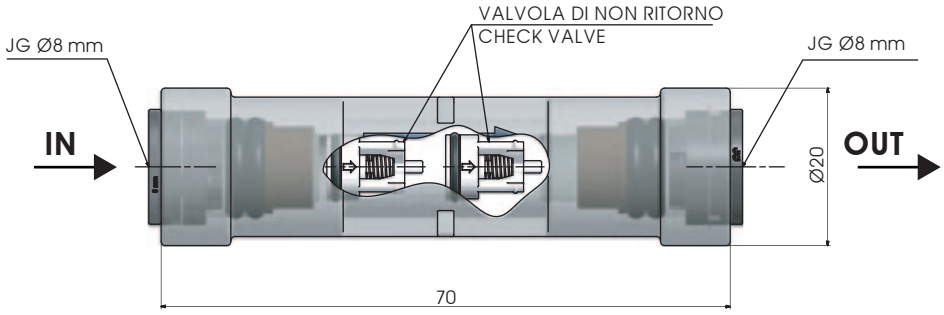
Colore Color	Portata Flow rate L/min	Portata Flow rate GAL/min	Tolleranza * Tolerance *	Compensatore in LSR Flow adjuster in LSR	M.O.Q. (pcs)
Beige	0,08 L/min	0.02 GAL/min	± 0,05 L/min	✓	1000
Marrone / Brown	0,10 L/min	0.03 GAL/min	± 0,05 L/min		1000
Rosa / Pink	0,15 L/min	0.04 GAL/min	± 0,05 L/min	✓	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.

Cartuccia versionabile

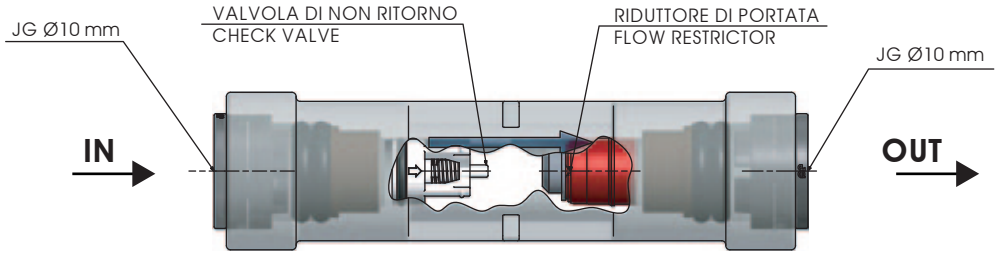
Adjustable cartridge fitting

F3143000



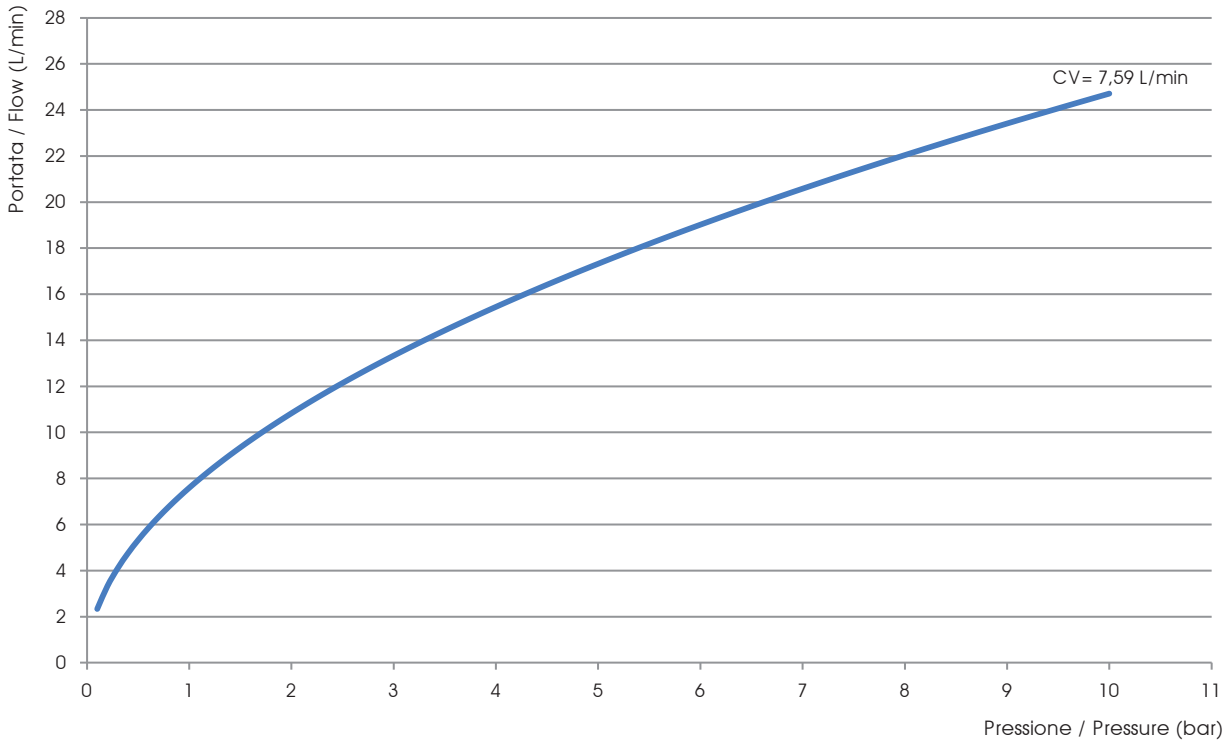
Misure in millimetri - Dimensions in millimeters

F3146000



Misure in millimetri - Dimensions in millimeters

GRAFICO PORTATA CON DOPPIA CHECK VALVE / FLOW RATE CHART WITH DOUBLE CHECK VALVE



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Cartuccia filtro/check

Filter/check cartridge

PPSU

PA

CARATTERISTICHE FISICHE

Corpo:	PPSU, PA
Guarnizioni:	LSR, EPDM, FKM
Rete filtrante:	AISI 304
Molla:	AISI 316

PHYSICAL SPECIFICATIONS

Body:	PPSU, PA
Gaskets:	LSR, EPDM, FKM
Filter wire:	AISI 304
Spring:	AISI 316

CARATTERISTICHE DI LAVORO

Pressione di esercizio:	0,05÷10 bar
Temperatura ambiente:	0°÷140°C (PPSU) 0°÷90°C (PA)
Temperatura fluido:	0°÷140°C (PPSU) 0°÷90°C (PA)
Direzione fluido:	Unidirezionale
Diametro di passaggio:	DN4

WORKING SPECIFICATIONS

Working pressure:	0,05÷10 bar
Room temperature:	0°÷140°C (PPSU) 0°÷90°C (PA)
Fluid temperature:	0°÷140°C (PPSU) 0°÷90°C (PA)
Flow direction:	Unidirezionale
Nominal diameter:	DN4

CERTIFICAZIONI / CERTIFICATIONS

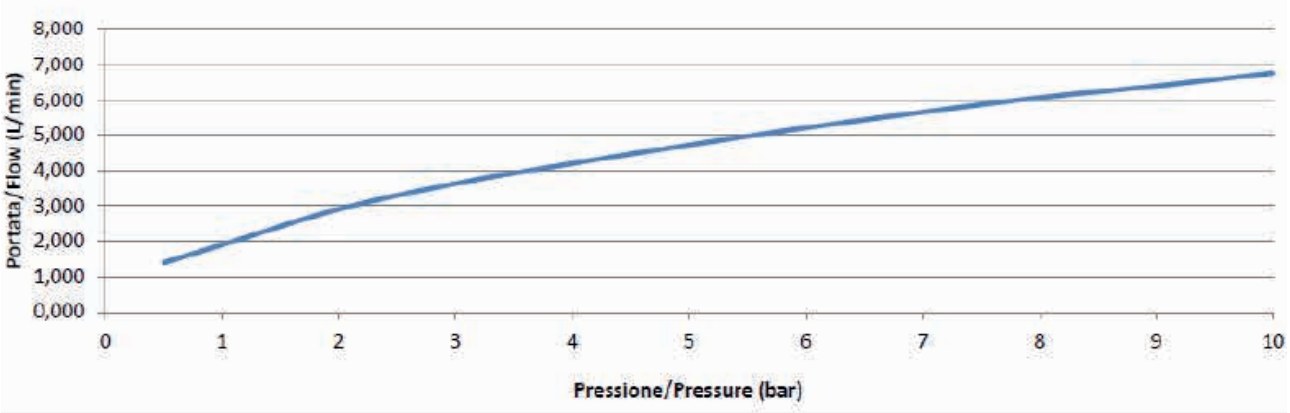
NSF

Cartuccia filtro/check

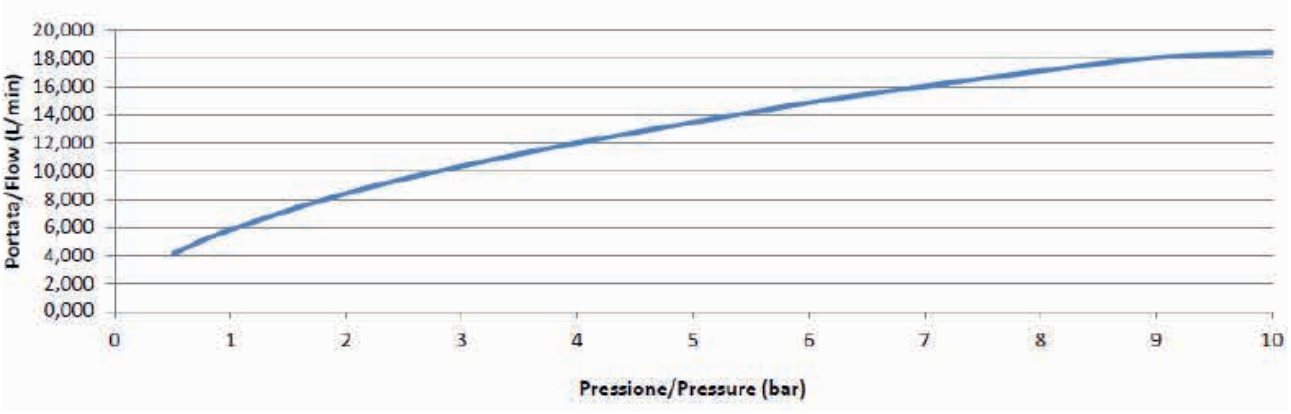
Filter/check cartridge

Modello	IN-OUT	Diametro nominale	Filtro / Filter	Check valve	Check + filtro
F3164	ROMER D. 4mm	4 mm	✓	✓	✓
F3166	ROMER D. 6mm	4 mm	✓	✓	✓
F3168	JG D. 4mm	4 mm	✓	✓	✓
F3170	JG D. 6mm	4 mm	✓	✓	✓

Cartuccia check Römer Ø 4 mm | Check cartridge Romer 4 mm



Cartuccia check Römer Ø 6 mm | Check cartridge Romer 6 mm

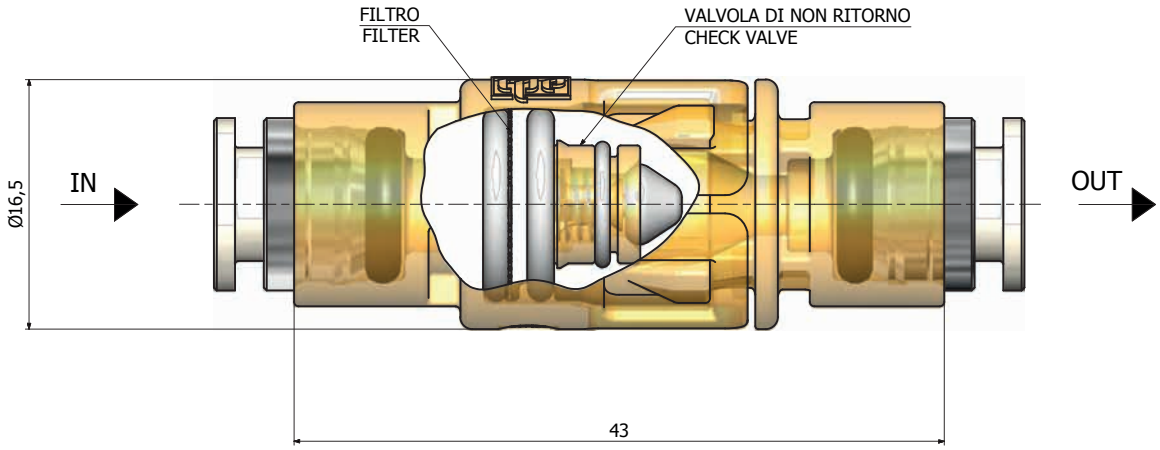


Misure in millimetri - Dimensions in millimeters

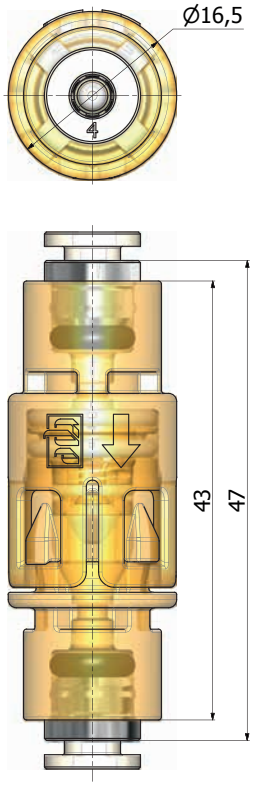
Cartuccia filtro/check

Filter/check cartridge

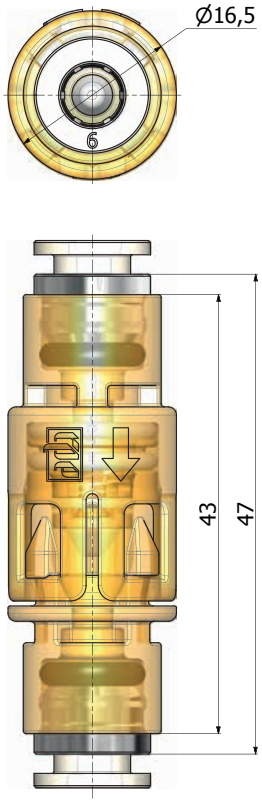
F3164 / F3166



F3164



F3166

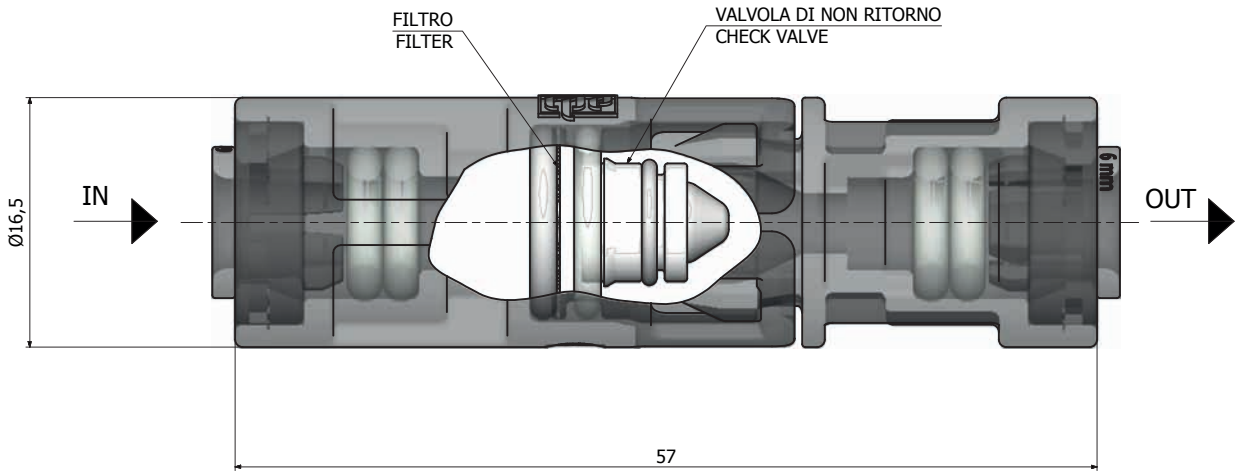


Misure in millimetri - Dimensions in millimeters

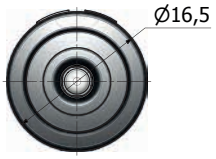
Cartuccia filtro/check

Filter/check cartridge

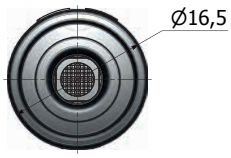
F3168 / F3170

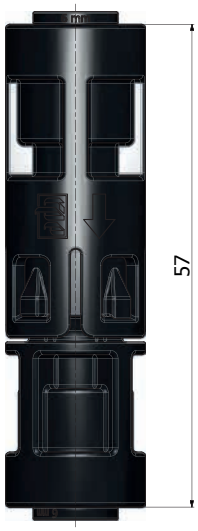


F3168



F3170





Misure in millimetri - Dimensions in millimeters

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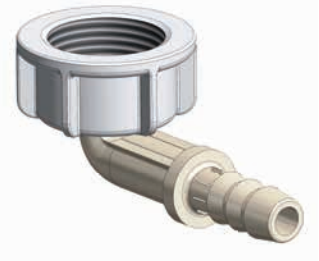
Raccordi

Fittings







CARATTERISTICHE FISICHE

Corpo raccordo: PA 66 - 30% FV

PHYSICAL SPECIFICATIONS

Body: PA 66 - 30% GF

CARATTERISTICHE DI LAVORO

Pressione di esercizio: 0 - 10 bar
Temp. ambiente: Max Tu 60° C
Temperatura fluido: Max Tm 90° C
Diametro nominale: DN 3 mm ; DN 4,5 mm ; DN 6 mm ; DN 7 mm ; DN 8 mm ; DN 8,5 mm
Direzione del fluido: Bidirezionale

WORKING SPECIFICATIONS

Working pressure: 0 - 10 bar
Room temperature: Max Tu 60° C
Fluid temperature: Max Tm 90° C
Orifice: ND 3 mm ; ND 4,5 mm ; ND 6 mm ; ND 7 mm ; ND 8 mm ; ND 8,5 mm
Fluid direction: Bidirectional

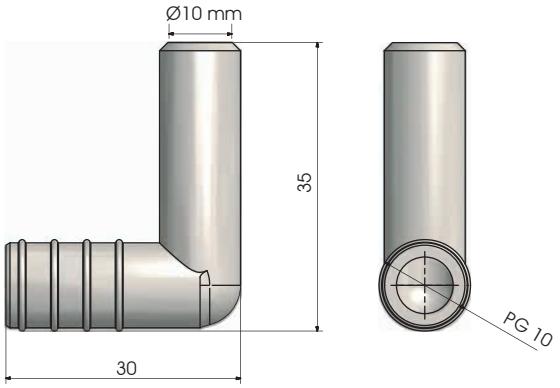
Modello Model	IN	OUT	Diametro nominale Nominal diameter	Press. di esercizio Working pressure	Temp. ambiente Room temperature	Temp. fluido Fluid temperature
C3163000	PG 10 mm	Codolo 10 mm	7 mm	0 - 10 bar	60° C	25° C
F3153000	3/8" M	JG 10 mm	8 mm	0 - 10 bar	60° C	25° C
F3154000	JG 10 mm	JG 10 mm	8,5 mm	0 - 10 bar	60° C	25° C
F3155000	JG 10 mm	JG 10 mm	8,5 mm	0 - 10 bar	60° C	25° C
F3160000	JG 10 mm	Codolo 10 mm	7 mm	0 - 10 bar	60° C	25° C
F3161000	JG 10 mm	JG 1/4"	4,5 mm	0 - 10 bar	60° C	25° C
F3162000	JG 4 mm	JG 1/4"	3 mm	0 - 10 bar	60° C	25° C
F3152100	G 3/4" F	PG 10 mm	6 mm	0 - 10 bar	25° C	90° C

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

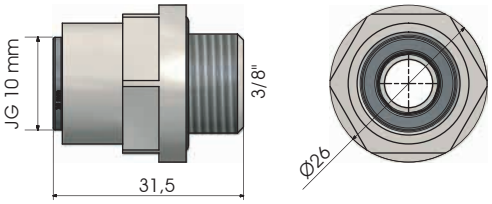
Raccordi

Fittings

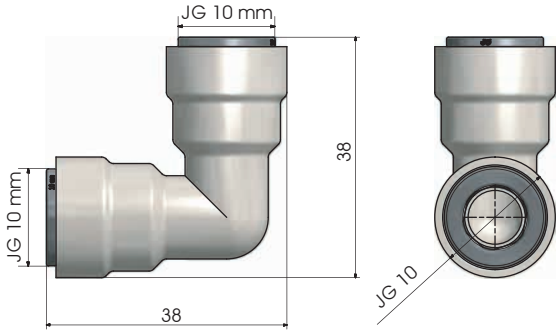
C3163000



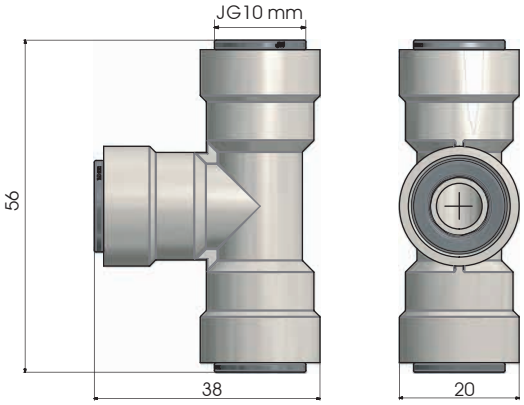
F3153000



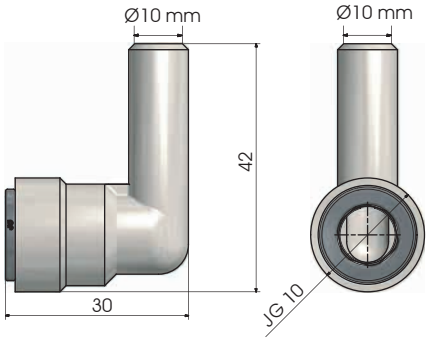
F3154000



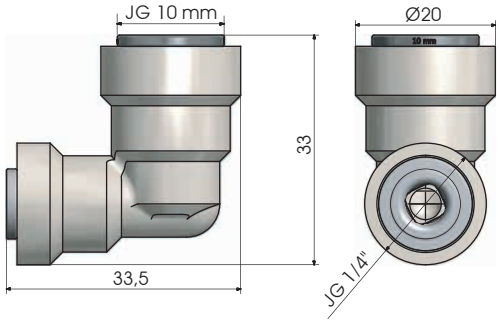
F3155000



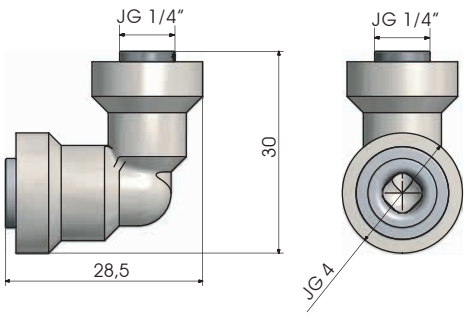
F3160000



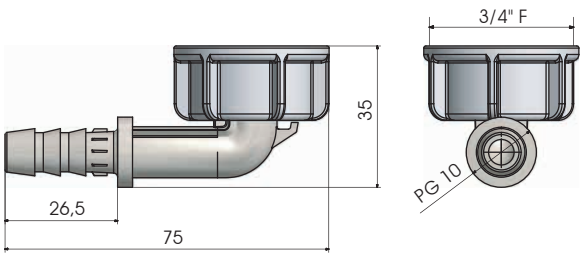
F3161000



F3162000



F3152100



Misure in millimetri - Dimensions in millimeters

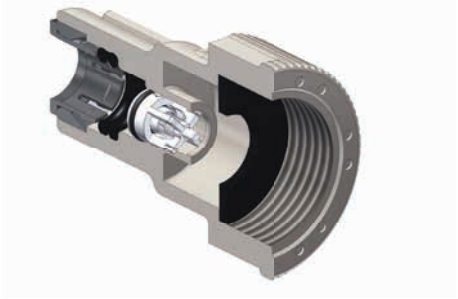
Raccordi

Fittings

Modello Model	IN	OUT	Colore Color	Filtro Filter	Guarnizione Gasket	Check valve con ingresso verso filetto / Check valve with inlet toward thread	Check valve con ingresso verso JG / Check valve with inlet toward JG
E3120100	3/4" F	JG 8 mm	Nero / Black	✓	✓		
E3120101	3/4" F	JG 8 mm	Nero / Black	✓	✓	✓	
E3120102	3/4" F	JG 8 mm	Bianco / White		✓		✓
E3120103	3/4" F	JG 8 mm	Bianco / White		✓		
E3120104	3/4" F	JG 8 mm	Bianco / White	✓	✓		
E3120105	3/4" F	JG 8 mm	Bianco / White		✓	✓	
E3120200	3/4" F	JG 10 mm	Nero / Black	✓	✓		
E3120201	3/4" F	JG 10 mm	Nero / Black	✓	✓	✓	
E3120202	3/4" F	JG 10 mm	Bianco / White		✓		✓
E3120203	3/4" F	JG 10 mm	Bianco / White		✓		

Con Filtro With Filter

Con check valve With check valve



Giunti per manicotto

Joints for coupling

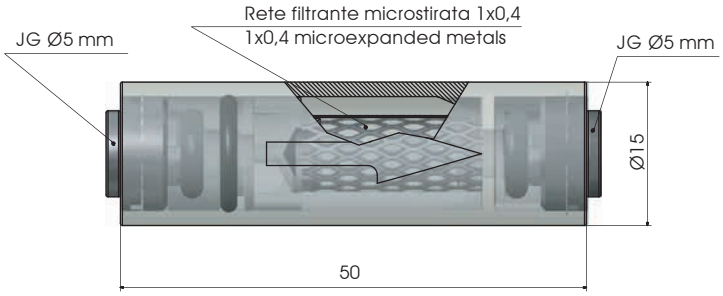
Modello Model	Connessione giunto Joints connection	Ghiera Coupling	Colore Color
C2514000	3/8" M	3/4" M	Nero / Black
C2514001	1/4" M	3/4" M	Nero / Black
C2514100	3/8" M	3/4" M	Bianco / White
C2514101	1/4" M	3/4" M	Bianco / White
C2515000	1/4" F	3/4" M	Nero / Black
C2515100	1/4" F	3/4" M	Bianco / White

Cartuccia filtro 1/8"

Cartridge filter 1/8"

Modello Model	Connessioni Connections	Assemblaggio Assembly
E2538000	Attacco rapido 5 mm Quick coupling 5 mm	Con doppio O-Ring With double O-Ring

Cartuccia filtro Cartridge filter



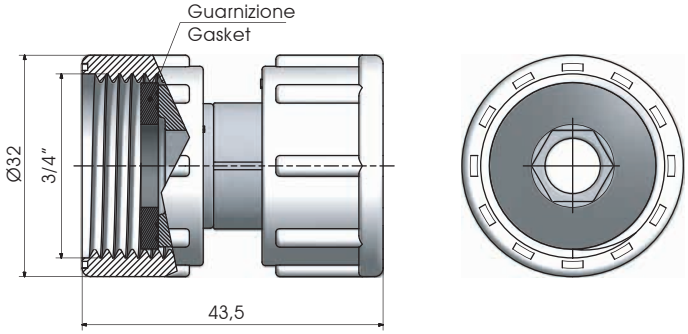
Misure in millimetri - Dimensions in millimeters

Manicotto con ghiera

Coupling with nut

Modello Model	Connessioni Connections
F2513100	G 3/4" F

F2513100



Misure in millimetri - Dimensions in millimeters

Collettore DN19 mm

Manifold ND19 mm

CARATTERISTICHE FISICHE

Corpo:	PA 66 - 30% FV
Guarnizioni / O-Ring:	NBR; LSR

PHYSICAL SPECIFICATIONS

Body:	PA 66 - 30% FV
Gaskets / O-Ring:	NBR; LSR

CARATTERISTICHE DI LAVORO

Press. di esercizio:	0 - 10 bar
Temp. ambiente:	Tu 60° C
Temperatura fluido:	Tm 25° C
Diametro nominale:	DN 19 mm

WORKING SPECIFICATIONS

Working pressure:	0 - 10 bar
Room temperature:	Tu 60° C
Fluid temperature:	Tm 25° C
Orifice:	ND 19 mm

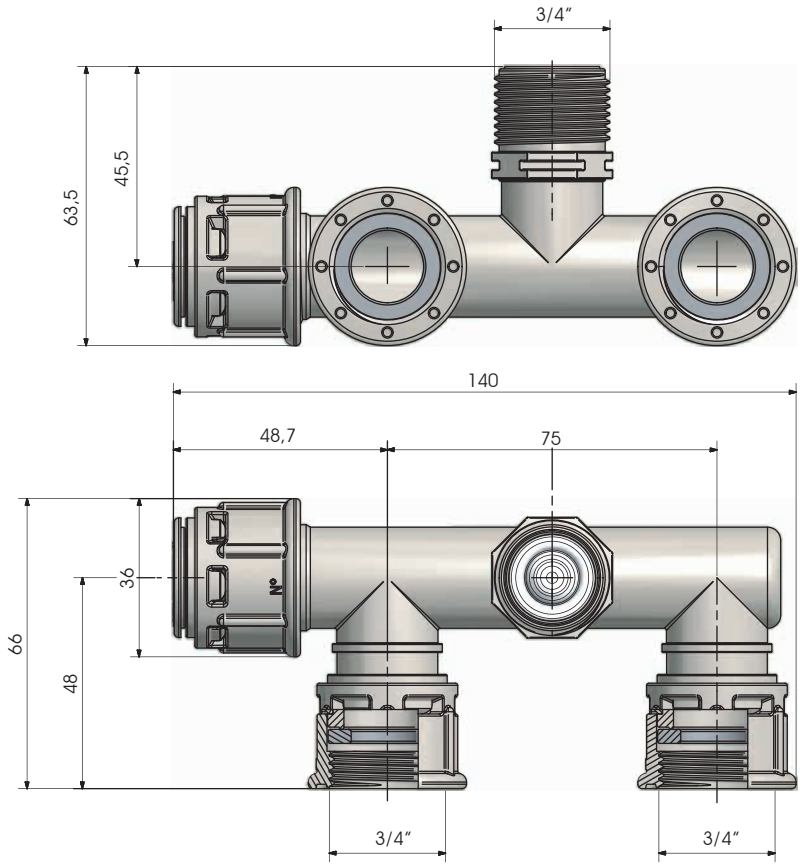
CONNESSIONI IDRAULICHE

Ingressi:	3/4" M; 3/4" F
Uscite:	3/4" M; 3/4" F

HYDRAULIC CONNECTIONS

Inlet:	3/4" M; 3/4" F
Outlet:	3/4" M; 3/4" F

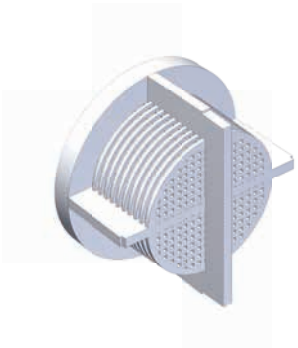
F3150000

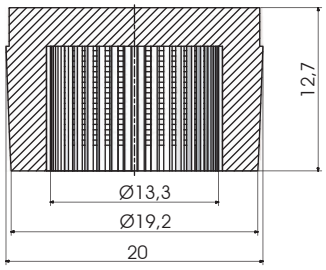


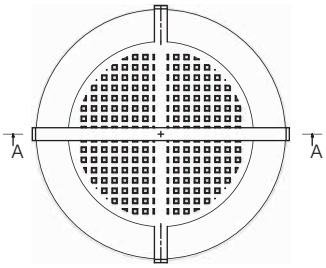
Misure in millimetri - Dimensions in millimeters

Filtro

Filter





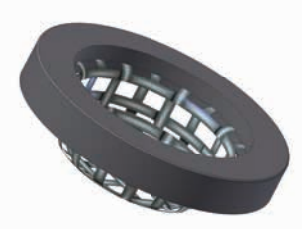


CARATTERISTICHE FISICHE	
Materiale:	Hostaform
Trama filtrante:	0,4 x 0,4 mm (50 mesh)

PHYSICAL SPECIFICATIONS	
Material:	Hostaform
Texture filtering:	0,4 x 0,4 mm (50 mesh)

Guarnizione Filtro

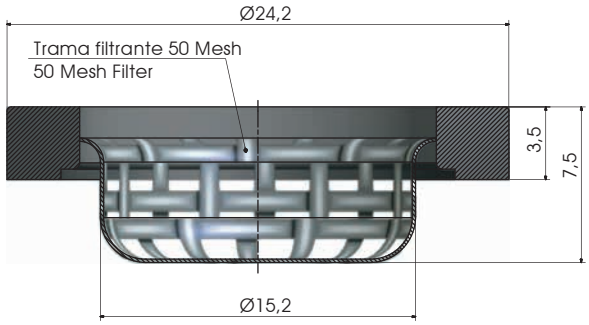
Filter seals



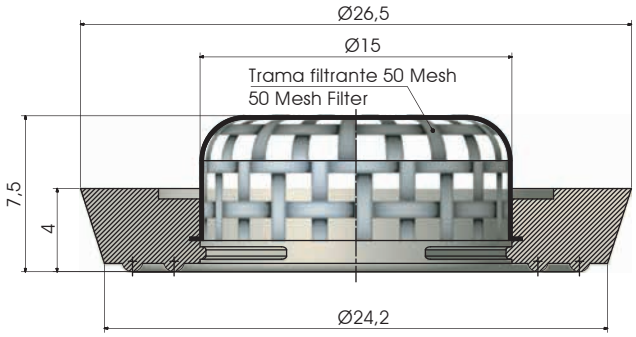
CARATTERISTICHE FISICHE	
Materiale:	Acciaio Inox e Gomma (idonei al contatto con alimenti)
Trama filtrante:	50 mesh

PHYSICAL SPECIFICATIONS	
Material:	Stainless steel and Rubber (suitable for contact with food)
Texture filtering:	50 mesh

C1805000



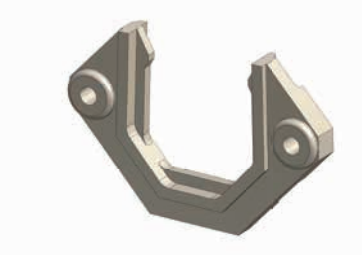
C1812000



Misure in millimetri - Dimensions in millimeters

Staffe di fissaggio

Fixing brackets



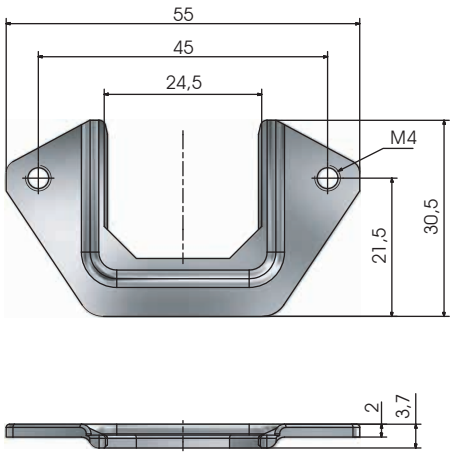
CARATTERISTICHE FISICHE

Materiale: Plastica o Ferro
Disponibile per: Serie R

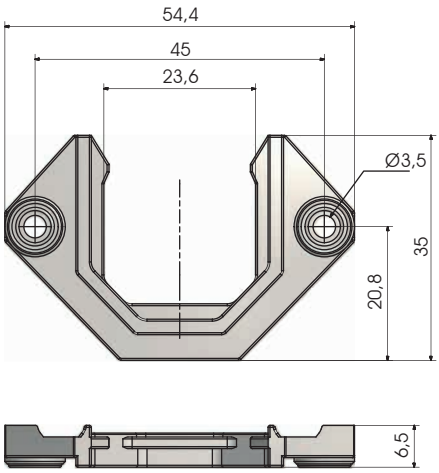
PHYSICAL SPECIFICATIONS

Material: Plastic or Iron
Avaible for: R Series

C1302000



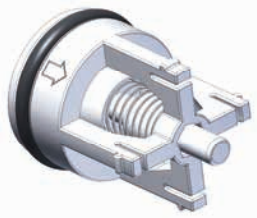
C1302100



Misure in millimetri - Dimensions in millimeters

Valvole di ritegno

Check valve



CARATTERISTICHE FISICHE

Disponibile per: Valvole della famiglia Serie R

PHYSICAL SPECIFICATIONS

Available for: Valves of R Series family

Modello Model	Serie Series	Connessione Connection	DN ND Ø
C2518000	RC	3/4"	20 mm
C2526000	R	3/4"	20 mm
C2527000	R; R Mini	JG	8 m

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Programmatori

Controllers

CERTIFICAZIONI / CERTIFICATIONS

CE

Programmatori

Controllers







	Led 100	Dig	Pro 100	Pro 200	Pro 400	Chrono 4/6/8 zone 9 V	Chrono 4/6/8 zone 24 V
Residenziale Domestic	✓	✓	✓	✓	✓	✓	✓
Installazione in esterno o pozzetto Outdoor or sums	✓	✓	✓	✓	✓	Optional	Optional
Montaggio a parete Wall mount						✓	✓
Attacco al rubinetto Faucet-attached controller	✓						
Funzionamento a batteria Battery operated	✓	✓	✓	✓	✓	✓	Optional (back-up)
Connessione rete elettrica Connection power grid							✓
Numero di programmi Number of programs	1	10	1	1	1	4	4
Numero di zone/stazioni Number of zones	1	1	1	2	4	4 / 6 / 8	4 / 6 / 8
Elettrovalvola integrata Integrated solenoid valve	✓						
Opzione bobine integrata Optional integrated solenoid		✓					
Tempi programmazione Irrigation time setting	30 sec - 90 min	1 min - 11 hours and 59 min	2-150 min	2-150 min	2-150 min	1sec - 8 hours and 59 min	1sec - 8 hours and 59 min
Frequenza Frequency	1-72 ore/hour	Weekly calendar	1 hour - 7 days	1 hour - 7 days	1 hour - 7 days	Weekly calendar	Weekly calendar
Calendario settimanale Weekly calendar		✓				✓	✓
Partenze Start time	10 min - 24 hours	1-10 starts per day	10 min - 72 hours	10 min - 72 hours	10 min - 72 hours	1-16 starts per day	1-16 starts per day
Memoria permanente Non-volatile memory						✓	✓
Predisposizione sensore climatico Climate sensor inlet	✓	✓	✓	✓	✓	✓	✓

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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 servo-control 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.

Terminologia tecnica

Technical terminology

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 (JG)
- 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 (JG)
- 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.

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.

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.

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.

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)

3-WAY SOLENOID VALVES (2 POSITIONS)

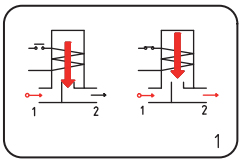
They have three connections and two orifices, one always open and one always closed, and are divided in:
- Normally closed (NC):
  2 = inlet; 1 = user; 0 = discharge (fig. 3)
- Normally open (NO):
  0 = inlet; 1 = user; 2 = discharge (fig. 4)
- Diverter valves:
  1 = inlet; 0 = user; 2 = user (fig. 5)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

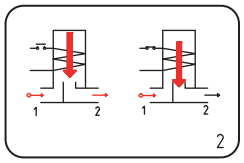
TEMPI DI RISPOSTA

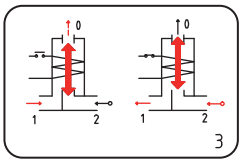
Dipendono dai seguenti fattori:
tipo di corrente (c.a. – c.c.), fluido trattato, viscosità, tipo di funzionamento, dimensioni dell'elettrovalvola.
Per la versione ad azione diretta (2 o 3 vie) e piccoli diametri (sino a circa 3 mm), si possono considerare nell'ordine di qualche decina di millisecondi.

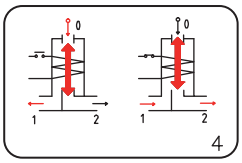
RESPONSE TIME

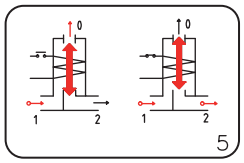
Depends on the following factors:
type of current (a.c. – d.c.), fluid used, viscosity, type of operation, size of the solenoid valve.
For direct-acting solenoid valves (2 or 3-way) and small diameters up to 3 mm, the response time is about ten milliseconds.

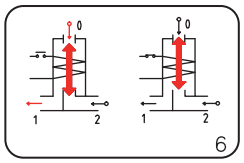












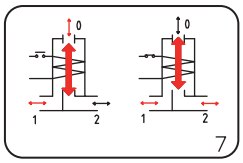


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Tabelle di conversione

Conversion tables

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 / Chloroform				
Cloruro di etile / Ethyl cloride			✓	
Cloruro 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 / Isobutane	✓		✓	
Isopentano / Isopentane	✓		✓	
Metano / Methane	✓		✓	
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			✓	

Legenda / Key: ✓ = Compatibile / Compatible

La presente tabella fornisce soltanto indicazioni di carattereg enerale 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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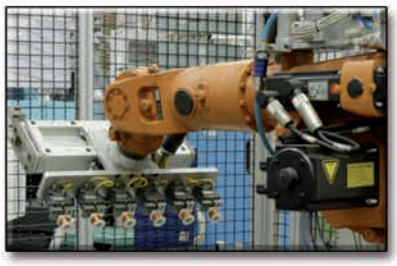


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