Plastic Solenoid Valves for Steam and Coffee Applications



Available from



BetaValve.com01494 459 511Sales@betavalve.comPark House Business Centre, Desborough Park Road, High Wycombe Bucks HP12 3DJ

Steam Series



CARATTERISTICHE FISICHE

Corpo valvola:
Membrana:
Guarnizione:
Nucleo:
Bobine:
Assemblaggio:

PPSU; PPS EPDM EPDM Acciaio Inox Classe F (155°)

CARATTERISTICHE DI LAVORO

Pressione di esercizio: Max 15 bar Contropressione: Temp. ambiente: Temperatura fluido: Diametro nominale: Comando: Direzione del fluido: CV:

Faston 6,3 x 0,8 mm

CONNESSIONI ELETTRICHE

Baionetta / Doppia baionetta Max 8 bar Tu 60° C Tm 140° C - ED 50%

DN 2,0 - 2,5 mm

Unidirezionale

Vedi pagina successiva

NC

PHYSICAL SPECIFICATIONS Valve body: Diaphragm: Gasket: Core:

Coils:

Assembly:

PPSU; PPS EPDM EPDM Stainless steel F class (155°) Bayonet / Doble bayonet

WORKING SPECIFICATIONS

Working pressure: Back-pressure: Room temperature: Tu 60° C Fluid temperature: Orifice: Control: Fluid direction: CV:

Max 15 bar Max 8 bar Tm 140° C - ED 50% ND 2,0 - 2,5 mm NC Unidirectional See next page

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm

CERTIFICAZIONI / CERTIFICATIONS

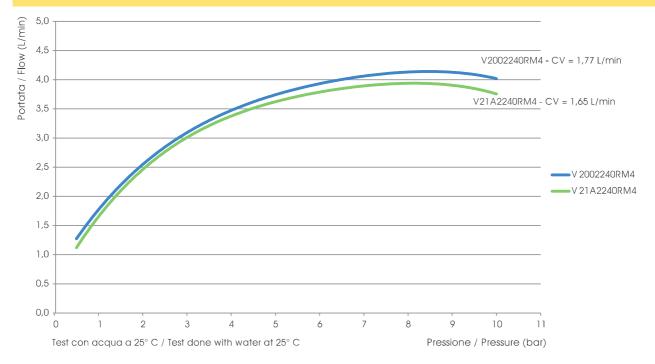




Steam Series

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 = Por	tagomma / Hose tail				

GRAFICO PORTATE SERIE VAPORE / FLOW RATES CHART STEAM SERIES



				enza wer	Assorb Const			
Codice progr Progress cod		Frequenza Frequency			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:

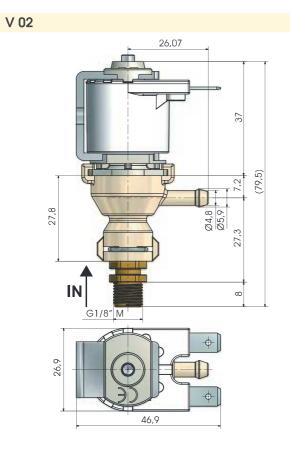
ED Funzionamento / Duty Cycle = 50% Approvazioni /Approvals: ENEC, UL, GW Faston: IP X0

Classe isolamento / Insulation class: Il

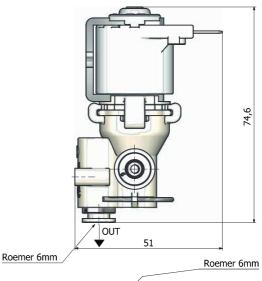
Classe isolamento bobina / Coil insulation class: F Tipo faston (Faston type): $6,3 \times 0,8$ mm

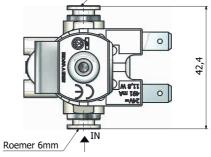


Steam Series



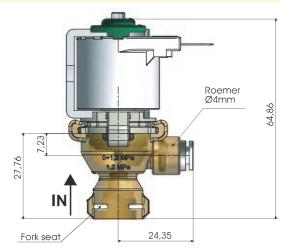
V22A2260RM6

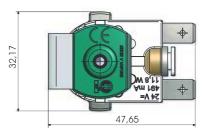




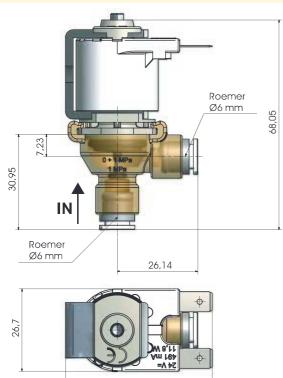
Misure in millimetri - Dimensions in millimeters

V2002240RM4





V2002660RM66



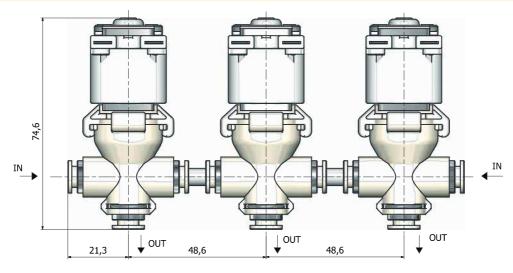
47,65

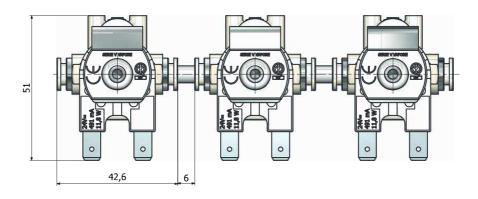


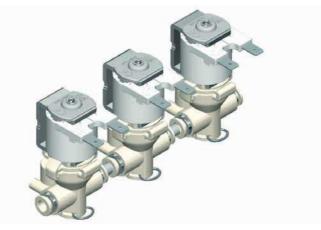
Steam Series

Serie vapore assemblata

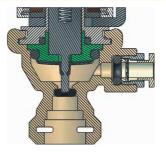
Assembled steam valves







Sistema auto-pulente



Self-cleaning system

R Series - 3/2 way exchange valve







CARATTERISTICHE FISICHE

Corpo valvola: Membrana: Nucleo: Bobine: Assemblaggio:

POM; PPH; PPSU LSR Acciaio Inox Classe F (155°) Baionetta

CARATTERISTICHE DI LAVORO

Pressione di esercizio: Max 4 bar Contropressione: Temp. ambiente: Temperatura fluido: Comando: Direzione del fluido:

Max 4 bar Tu 60° C - Tu 90° C Tm 60° C - Tm 90° C (3 ON - 5 OFF) Diametro nominale: DN 2 mm - 2,5 mm - 4 mm - 6 mm 3 vie di scambio Bidirezionale

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm

PHYSICAL SPECIFICATIONS Valve body: Diaphragm: Core: Coils: Assembly:

POM; PPH; PPSU LSR Stainless steel F class (155°) Bayonet

WORKING SPECIFICATIONS

Working pressure: Room temperature: Max 4 bar Room temperature: Tu 60° C - Tu 90° C Fluid temperature: Orifice: Control: Fluid direction:

Max 4 bar Tm 60° C - Tm 90° C (3 ON - 5 OFF) ND 2 mm - 2,5 mm - 4 mm - 6 mm 3-way exchange Bidirectional

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm

CERTIFICAZIONI / CERTIFICATIONS

CE

R Series - 3/2 way exchange valve

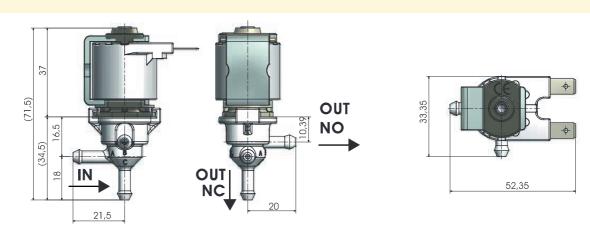


Modello Model	IN	OUT NC	out Na/No	Corpo valvola Valve body	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure
R100322020PG5	PG 5 mm	PG 5 mm	PG 5 mm	POM	2 mm	0 - 0,5 bar	0-0,1 bar
Legenda / Key: PG = Portagommo	a / Hose tail						

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

			Pote Pov		Assorbi Consu			
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		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): $6,3 \times 0,8$ mm

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

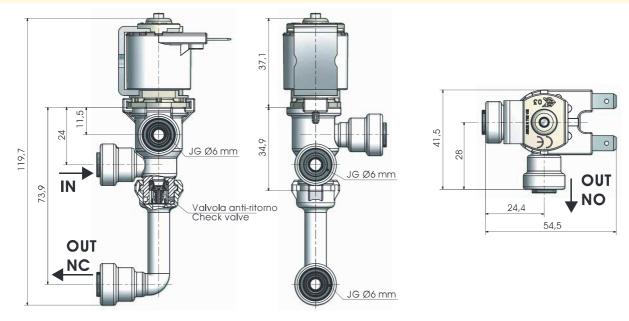
Legenda / Key:

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		Assorbii Consu				
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		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 ED Funzionamento / DutyCycleNA: Normalmente Aperta / NormallyOpenApprovazioni / Approvals: UL, GWNB: Bistabile / LatchingFaston: IP X0GW: Glow WireCavi / wires: IP 55

Classe isolamento / Insulation class: II Classe isolamento bobina /Coil insulation class: F Tipo faston / Faston type: 6.3×0.8 mm

R Series - 3/2 way exchange valve

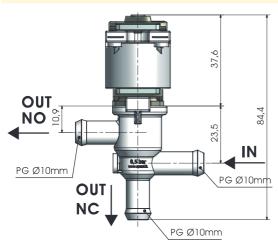


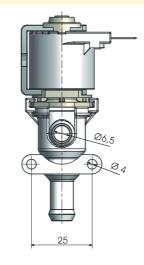
Modello Model	IN	OUT NC	out Na/No	Corpo valvola Valve body	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure
R200326060PG10	PG 10 mm	PG 10 mm	PG 10 mm	POM	6 mm	0 - 0,5 bar	0 - 0,1 bar
Legenda / Key: PG = Portagommo	a / Hose tail	JG = Att	acco rapido	/ Quick coupling	3		

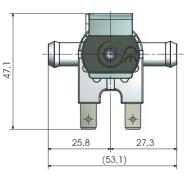
M.O.Q.

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

R2







Misure in millimetri - Dimensions in millimeters

				Pote Pow		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 <i>,</i> 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 / NormallyClosedED Funzionamento / DutyCycleNA: Normalmente Aperta / NormallyOpenApprovazioni / Approvals: GWNB: Bistabile / LatchingFaston: IP X0GW: Glow WireCavi / Wires: IP 55

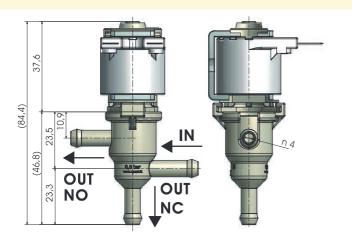
Classe isolamento / Insulation class: II Classe isolamento bobina /Coil insulation class: F Tipo faston / Faston type: 6.3×0.8 mm

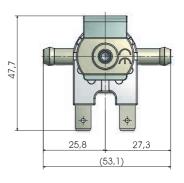
R Series - 3/2 way exchange valve



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	ငဝၭဖု	ED (funzionamento) (duty cycle)	Approvazioni Approvals
1	24 V DC	=	6,30 W	265 mA	/	100%	ENEC
la	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

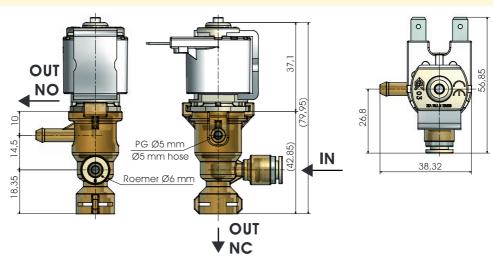
R Series - 3/2 way exchange valve

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	Forchett	a = 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		Assorbi Consu			
Codice pro Progress o	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

R Series - 3/2 way exchange valve

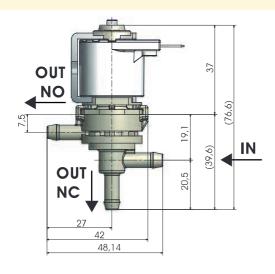


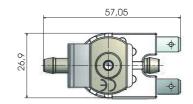
Modello Model	IN	OUT NC	OUT NA/NO	Corpo valvola Valve body	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure
R400322020PG6	PG 6 mm	PG 6 mm	PG 6 mm	POM	2 mm	0 - 0,5 bar	0-0,1 bar
Legenda / Key: PG = Portagomm	a / Hose tail						

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

				Pote Pov		Assorbi Consu			
(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

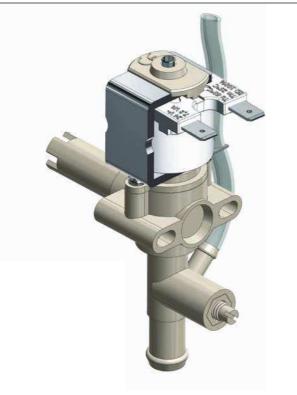
Legenda / Key: ED Funzionamento / Duty Cycle Approvazioni /Approvals: ENEC, UL, GW Faston: IP X0 Cavi / Wires: IP 55

Classe isolamento / Insulation class: II

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

Serie RD Vent

RD Vent Series



CARATTERISTICHE FISICHE

Corpo valvola: Membrana: Nucleo: Molla: Bobine:: Assemblaggio:

PSU Silicone Acciaio Inox AISI 304 Classe F (155°) Baionetta e viti

CARATTERISTICHE DI LAVORO

Pressione di esercizio: 0-0,06 bar Temp. ambiente: Temperatura fluido: Diametro nominale: Comando: Direzione del fluido:

Tu 60° C Tm 98° C - ED 100% DN 8 mm NC Unidirezionale

CONNESSIONI ELETTRICHE

Faston 6,3 x 0,8 mm

GAMMA SOLENOIDI

12 V DC 24 V DC

PHYSICAL SPECIFICATIONS Valve body: PSU

Diaphragm: Core: Spring: Coils: Assembly:

Silicone Stainless steel AISI 304 F class (155°) Bayonet and screws

WORKING SPECIFICATIONS

Working pressure: Room temperature: Tu 60° C Fluid temperature: Orifice: Control: Fluid direction:

0 - 0,06 bar Tm 98° C - ED 100% ND 8 mm NC Unidirectional

ELECTRICAL CONNECTIONS

Faston 6,3 x 0,8 mm

SOLENOIDS RANGE

12 V DC 24 V DC

Serie RD Vent

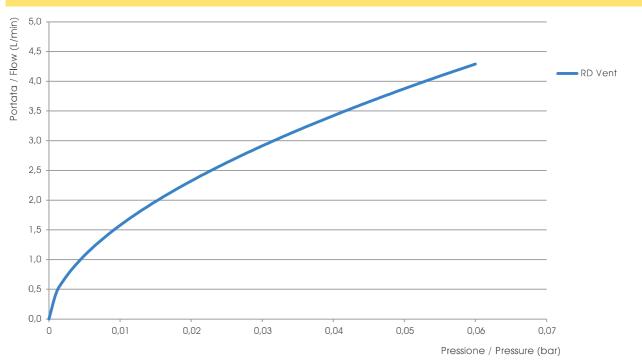
RD Vent Series



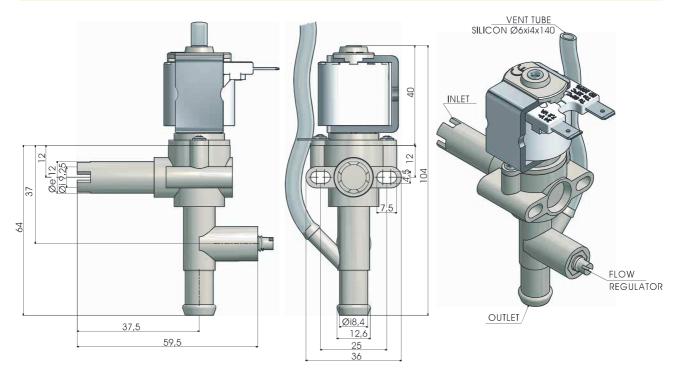
Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Temp. ambiente Room temperature	Temp. fluido Fluid temperature
RDA001081000	Codolo 10 mm	PG 10,5 mm	160	8 mm	0 - 0,06 bar	60° C	98° C

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

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



RDA001081000





Serie RD Vent - Solenoidi

RD Vent Series - Solenoids



						Conne Conne		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	\checkmark		
2	12 V DC	=	14 W	1100 mA	/	F, C	620, 2500	1		

(*) 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



Serie R - Mini

R Series - Mini



CARATTERISTICHE FISICHE

Corpo valvola: Membrana: Nucleo: Bobine: Assemblaggio:

PA 66 - 30% FV NBR; EPDM; LSR Acciaio Inox Classe F (155°) Con viti, ispezionabile

CARATTERISTICHE DI LAVORO

Pressione di esercizio: 0,2 - 10 bar Temp. ambiente: Temperatura fluido:

Diametro nominale: Comando: Direzione del fluido: CV Serie R Mini: CV Serie R Mini G:

Tu 60° C Tm 25° C - Tm 60° C - ED 100% Tm 90° C (3 ON - 5 OFF) DN 11mm NC; NA; Bistabile Unidirezionale Vedi pagine succesive 27,07 L/min

CONNESSIONI ELETTRICHE

Faston 6.3 x 0.8 mm Cavi unipolari max 5000 mm Cavi bipolari max 5000 mm

PHYSICAL SPECIFICATIONS

Valve body: Diaphragm: Core: Coils: Assembly:

PA 66 - 30% GF NBR; EPDM; LSR Stainless steel F class (155°) With screws, serviceable

WORKING SPECIFICATIONS

Working pressure: Room temperature: Tu 60° C Fluid temperature: Orifice: Control: Fluid direction: CV R Series Mini: CV R Series Mini G:

0,2 - 10 bar Tm 25° C - Tm 60° C - ED 100% Tm 90° C (3 ON - 5 OFF) ND 11 mm NC; NO; Latching Unidirectional See next pages 27,07 L/min

ELECTRICAL CONNECTIONS

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





CERTIFICAZIONI / CERTIFICATIONS









SERIE R - MINI R Series - Mini

Serie R - Mini



R Series - Mini

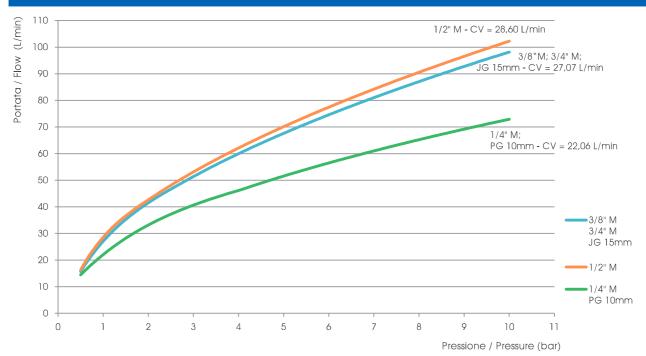
Modello Model	IN	OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
210	1/8" F	1/8" F	11 mm	160						
310	1/4" F	1/4" F	11 mm	160						
311	1/4" M	1/4" M	11 mm	160						
410	3/8" 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	\checkmark					
015	PG 10 mm	PG 10 mm	n 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			\checkmark		\checkmark	\checkmark
119	JG 3/8"	JG 3/8"	11 mm	160			\checkmark		\checkmark	1
113	JG 6 mm	JG 6 mm	11 mm	160			\checkmark		\checkmark	\checkmark
1146	JG 8 mm	JG 8 mm	11 mm	160			1		\checkmark	1
115	JG 10 mm	JG 10 mm	ı 11 mm	160			\checkmark		\checkmark	1
117	JG 15 mm	JG 15 mm	11 mm	160						

Legenda / Key:

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

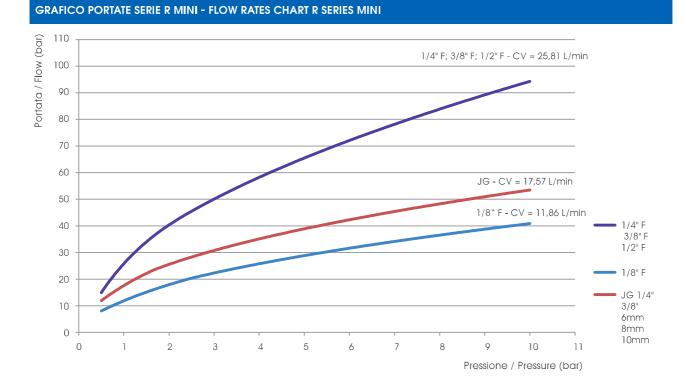
GRAFICO PORTATE SERIE R MINI - FLOW RATES CHART R SERIES MINI

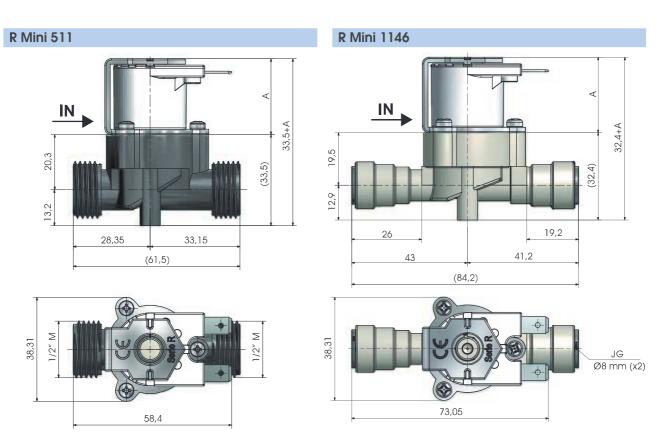


Serie R - Mini



R Series - Mini





Misure in millimetri - Dimensions in millimeters

Serie R - Mini G



Fixing details*

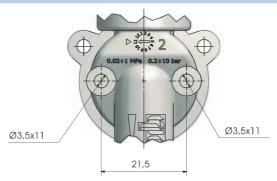
R Series - Mini G

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	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
613	3/4" M	3/4" F (con ghiera)	11 mm	160	\checkmark	\checkmark	1	\checkmark		1
614	3/4" F (con ghiera)	3/4" M	11 mm	160	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
615	3/4" F (con ghiera)	3/4" F (con ghiera)	11 mm	160	1	1	1	\checkmark		1

Legenda / Key:

Con ghiera = With ring nut

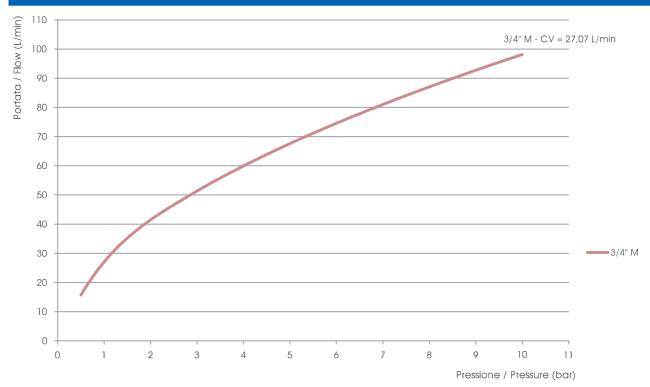
Dettagli di fissaggio*



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

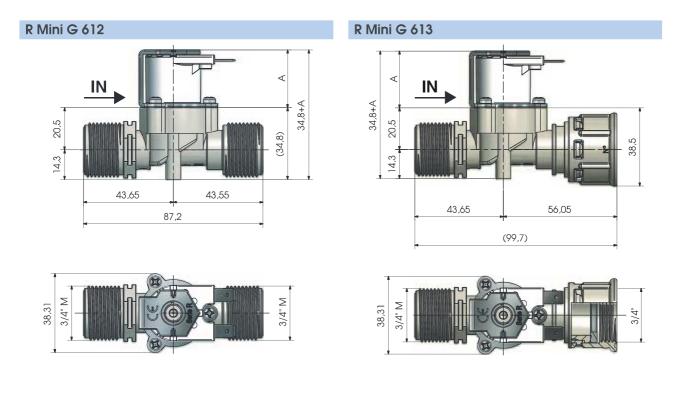
GRAFICO PORTATE SERIE R MINI G / FLOW RATES CHART R SERIES MINI G



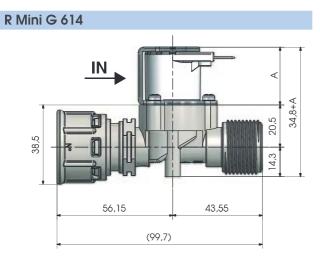
Serie R - Mini G

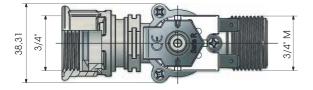


R Series - Mini G

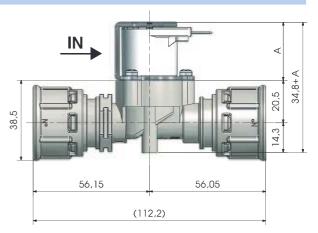


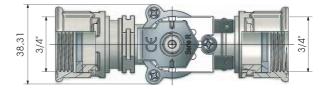
Misure in millimetri - Dimensions in millimeters





R Mini G 615





Serie 890

890 Series



CARATTERISTICHE FISICHE

Corpo valvola: Membrana: Nucleo: Molla: Assemblaggio:

PA 66 Silicone Acciaio inossidabile Acciaio inossidabile Viti

CARATTERISTICHE DI LAVORO

Pressione di esercizio: Temperatura ambiente: Temperatura fluido: Direzione fluido: Diametro di passaggio: Elet.Pilota/Comando:

0 ÷ 0,1bar MAX 60°C MAX 98°C Unidirezionale Ø8mm NC

PHYSICAL SPECIFICATIONSValve body:PA 66Diaphragm:SiliconCore:StainleSpring:Stainle

Silicone Stainless steel Stainless steel Screw

WORKING SPECIFICATIONS

Working pressure: Room temperature: Fluid temperature: Flow direction: Nominal diameter: Elect.Pilot/Control:

Assembly:

0 ÷ 0,1bar MAX 60°C MAX 98°C Unidirectional Ø8mm NC

> SERIE 890 890 Series

Serie 890

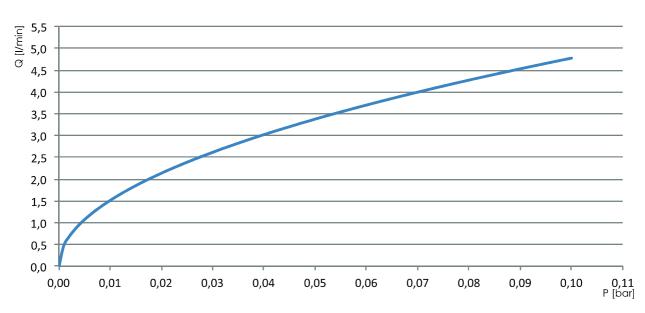


890 Series

	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									

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

				Pote Pov		Assorbi Consu			
1	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

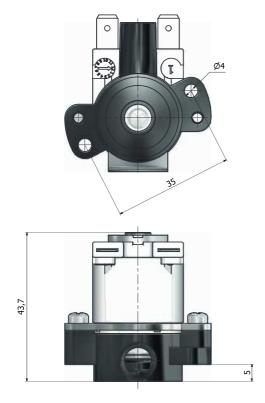
Classe isolamento bobina / Coil insulation class: F Tipo faston (Faston type): $6,3 \times 0,8$ mm

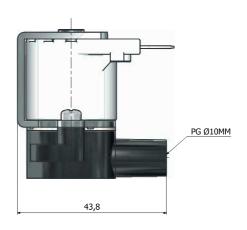
Serie 890

890 Series

Serie 890

890 Series





F355S80Vent after vend valve body with 8mm orificeE355S12Vent after vend valve body with 12mm orificeF355S12Vent after vend valve body with 12mm orifice, for
use on hard water

Description

The E355 series makes use of an innovative and patented design that opens a port at the top of the outlet when the valve shuts off the flow. This third port admits air into the dispense pipe as the valve closes thus

evacuating the residual water in the pipe quickly. This "vent after vend" principle means that a standard sized cup may be filled in under 2.5 seconds. For in-cup designs the faster flow not only reduces vend times but also increases flow aggression improving the mixing of ingredients. Patents pending: GB 0002853 & 9922355.

Characteristics

Material

Valve body:	
Valve body colour:	
Seal:	
Armature:	

Polysulphone Transparent grey. Silicone Stainless steel

Operating characteristics

Mounting Position:

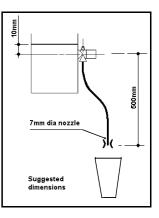
With inlet horizontal and outlet down.

CODE	Orifice		Differential Pressure E		Differential Pressure Bar Nominal Power				Duty	C	oil	Seal	Temp Range		
	mm	m3/hr	Min	Ma	ax	AC	VA	DC	Cycle	Tupo	Width		°C		
*			IVIITI	AC	DC	Inrush	Holding	Watts		Туре	mm				
F355S80/30	8	1.43		0.3	0.3	12	8	-	100%	E3	22				
F355S80/40	0	1.45		0.5	0.0	0.3	0.5	15	11	8	100%	E4	30		
E355S12/40			0	0.1	0.1	15	11	8	100%	E4	30	Silicone	95		
F355S12/30	12	2.7	2.7		0.2	0.2	24	16	19	50%	E3	22			
F355S12/40				0.2	0.2 0.2	15	11	-	100%	E4	30				

* Coil voltage code, see overleaf, 50% rated coils call sales office.







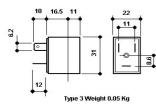
COIL				ernating Current 50/60Hz Volt Direct Current Volt				t Volt	Volt Electrical Connec				
	12	24	48	110	220 230	240	380	12	24	48	Connection		,
Type 3 Width 22	30A	30B	30C	30D	30E	30F	30G	300	301	302	DIN 46244	PG9 code 10348000	
Type 4 Width 30	40A	40B	40C	40D	40E	40F	40G	400	401	402	DIN 46350A	PG11 code 10349060	
	10 23 15 30								(

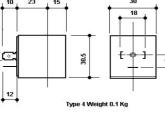
DESCRIPTION

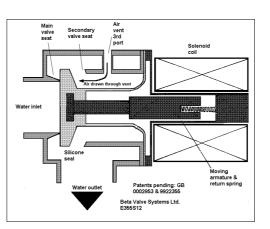
Class F insulation

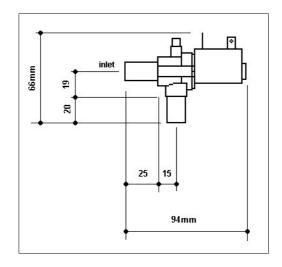
Voltage tolerance AC+15%-10% DC±10% Protection to IP65 with connector fitted

Continuous service ED 100% (not F355 with Type 3 coils)









E355-2 2/04/2003

Specification subject to change without notice, E&OE.

Befe Velv Tel: 01494 459511 BETA VALVE SYSTEMS LTD PARK HOUSE BUSINESS CENTRE DESBOROUGH PARK ROAD HIGH WYCOMBE, BUCKS. HP12 3DJ

Fax: 01494 461136 Email: sales@betavalve.com www.betavalve.co.uk

Serie R - Semplice - Doppia - Tripla - Quadrupla

R Series - Single - Double - Triple - Quadruple



CARATTERISTICHE FISICHE

Corpo valvola: Membrana: Nucleo: Bobine: Assemblaggio:

PA 66 - 30% FV

CARATTERISTICHE DI LAVORO

Tu 60° C

Pressione di esercizio: 0,2 - 10 bar Temp. ambiente: Temperatura fluido: Diametro nominale:

Comando: Direzione del fluido: CV 90°:

CV 180°:

NBR; LSR Acciaio Inox Classe F (155°) Con viti, ispezionabile

Tm 25° C - Tm 60° C - ED 100%

Tm 90° C (3 ON - 5 OFF)

DN 8 mm; DN 10 mm

Semplice 21,55 L/min

Quadrupla 13,34 L/min

Quadrupla 12,41 L/min

Semplice 16,96 L/min

Doppia 12,26 L/min

Tripla 15,19 L/min

Doppia 13,00 L/min

Tripla 16,31 L/min

NC; NA; Bistabile

Unidirezionale

Diaphragm: Core: Coils:

Valve body:

Assembly:

NBR; LSR Stainless steel F class (155°) With screws, serviceable

PA 66 - 30% GF

WORKING SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Working pressure: Room temperature: Tu 60° C Fluid temperature: Orifice: Control: Fluid direction: CV 90°: CV 180°:

0,2 - 10 bar Tm 25° C - Tm 60° C - ED 100% Tm 90° C (3 ON - 5 OFF) ND 8 mm; ND 10 mm NC; NO; Latching Unidirectional Single 21,55 L/min Double 13,00 L/min Triple 16,31 L/min Quadruple 13,34 L/min 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)

NSF













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		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
152	3/4" M	PG 13 mm	8 mm		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
155	3/4" M	PG 13 mm	10 mm		\checkmark	\checkmark	\checkmark	\checkmark		
190	3/4" M	3/8" M	10 mm		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
161	3/4" M	Codolo 10 mm	10 mm		\checkmark	\checkmark	1	\checkmark	\checkmark	1
183	3/4" M	JG 6 mm	10 mm		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
189	3/4" M	JG 8 mm	10 mm		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
180	3/4" M	JG 10 mm	10 mm		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	1
185	3/4" M	JG 12 mm	10 mm		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Legenda / Key:

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

Codolo = Spigot

1**80**°

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	n 10 mm	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
154	3/4" M	PG 13 mm	n 10 mm	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	1
156	3/4" M	1/4" M	10 mm	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	1
157	3/4" M	3/4" M	10 mm	1	\checkmark	\checkmark	\checkmark	\checkmark		
158	3/4" M	Codolo 10 mm"	10 mm	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
162	3/4" M	JG 1/4"	10 mm	1	1	\checkmark	1	\checkmark	\checkmark	1
163	3/4" M	JG 6 mm	10 mm	\checkmark	1	\checkmark	\checkmark	\checkmark	\checkmark	1
159	3/4" M	JG 8 mm	10 mm	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	1
160	3/4" M	JG 10 mm	10 mm	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	1
164	3/4" M	JG 12 mm	10 mm	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		

Legenda / Key:

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

Codolo = Spigot

Mod Mo		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					\checkmark	\checkmark	\checkmark
1 80 °	193	JG 6 mm	3/8" M	10 mm				\checkmark		\checkmark	\checkmark
1 80 °	165	JG 8 mm	JG 10 mm	10 mm				\checkmark		\checkmark	\checkmark
1 80 °	174	JG 10 mm	JG 8 mm	10 mm				\checkmark		\checkmark	\checkmark

Legenda / Key:

PG = Portagomma / Hose tail JG = At

JG = Attacco rapido / Quick coupling Codolo = Spigot

Serie R - Semplici

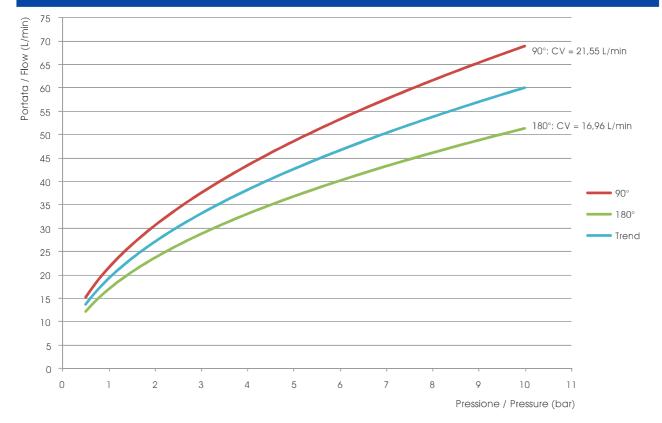
R Series - Single

M.O.Q.

Singola / Single 90°:	
Singola / Single 180°:	

120 pcs 160 pcs

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





R Series - Flow meter



CARATTERISTICHE FISICHE

Montabile su: Corpo calotta: Corpo valvola: Guarnizione: Assemblaggio:

Tutta la Serie R POM PA 66 - 30% FV NBR; Silicone Con viti, ispezionabile

CARATTERISTICHE DI LAVORO

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

CONNESSIONI ELETTRICHE

Connettore Hall: Connettore Reed: Cavo Hall: Cavo Reed:

JST 3 poli JST 2 poli 1050; 2800 mm 1050; 2800 mm

PHYSICAL SPECIFICATIONS Can be fitted on:

Flow meter body: Valve body: Gasket: Assembly:

All the R Series POM PA 66 - 30% GF NBR; Silicone With screws, serviceable

WORKING SPECIFICATIONS

Working pressure: Room temperature: Tu 60° C Fluid temperature: Flow direction:

ELECTRICAL CONNECTIONS

Hall connector: Reed connector: Hall cable: Reed cable:

JST 3 pin JST 2 pin 1050; 2800 mm 1050; 2800 mm

0 - 10 bar

Tm 25° C

Unidirectional





CERTIFICAZIONI / CERTIFICATIONS

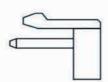


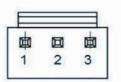






R Series - Flow meter

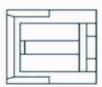




CONNESSIONI E	LETTRICHE
Sensore HALL	
Tipo di uscita:	Collettore aperto NPN
Tensione:	5-28 Vcc
Corrente:	Massima 10 mA
Connessione:	Connettore tripolare maschio (nero)
Tipo connettore:	JST B3P-VH-BK (3 poli/p. 3,96) pin 1 = uscita pin 2 = negativo (-) pin 3 = positivo (+)

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 (+)



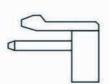


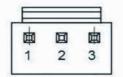
Sensore	HALL

Connessione: Lunghezza cavo: Tipo connettore: Cavo con connettore tripolare femmina (rosso) 0,31m / 1m / 2,8m 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

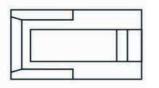
Connection:	Cable with tripolar female connector (red)
Cable length:	0,31m / 1m / 2,8m
Connector type:	JST VHR-3N-R (3 pin/p. 3,96) pin 1 = output (white wire) pin 2 = positive (+) (brown wire) pin 3 = negative (-) (green wire)

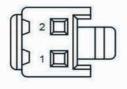




CONNESSIONI E	LETTRICHE	ELECTRI
Sensore REED		REED se
Tipo di uscita:	Contatto NA	Output ty
Tensione:	5 - 28 Vcc	Voltage:
Corrente:	Massima 500 mA	Current:
Connessione:	Connettore tripolare maschio (bianco)	Connect
Tipo connettore:	JST B3P-VH (3poli/p.3,96) pin 1 = contatto pin 2 = libero (nc) pin 3 = contatto	Connect

ELECTRICAL CO	NNECTIONS
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





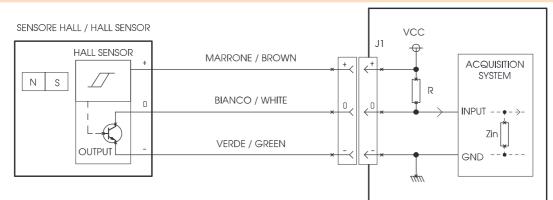
Sensore REED	
Connessione:	Cavo con
	connettore bipolare
	femmina (bianco)
Lunghezza cavo:	0,195m / 1m / 2,8m
Tipo connettore:	JST VHR-2N
	(2 poli/p. 3,96)
	pin 1 = contatto
	(cavo marrone)
	pin 2 = contatto
	(cavo bianco)

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)

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

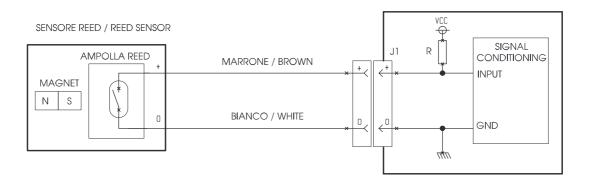
REED Sensor

Sensore REED

SENSORE REED / REED SENSOR VCC J1 AMPOLLA REED MARRONE / BROWN + \leftarrow^+ SIGNAL MAGNET CONDITIONING NL Si **BIANCO / WHITE** 0 0 \leftarrow^{0} INPUT R GND

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: Corrente di carico: Resistenza di carico: R = Resistenza di carico: R = Resistenza di carico: R =

5 - 28 VCC 0,05 mA @ 3 mA (tipico) 4,7 Kohm / 0,25 W (tipico A 5 VCC) 10 Kohm / 0,25 W (tipico A 28 VCC) 100 Kohm / 0,25 W (Max)





R Series - Flow meter

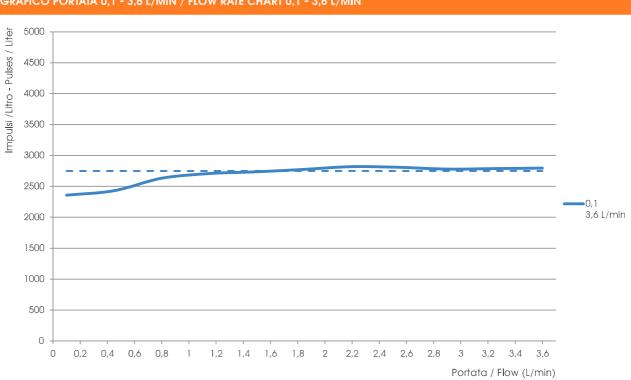


GRAFICO PORTATA 0,1 - 3,6 L/MIN / FLOW RATE CHART 0,1 - 3,6 L/MIN

PERFORMANCE

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

PERFORMANCE

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

R Series - Flow meter



PERFORMANCE	0,5 - 7 L/min	PERFORMANCE	0,5 - 7 L/min
Impulsi / litro nominali: 840		Nominal pulse / liter: 840	
Tolleranza: ± 20 %		Tolerance: ± 20 %	
N° magneti: 1		Magnet No.: 1	
Senza ByPass		No ByPass	

PERFORMANCE	1 - 15 L/min	PERFORMANCE	1 - 15 L/mir
Impulsi / litro nominali: 515		Nominal pulse / liter: 515	
Tolleranza: ± 20 %		Tolerance: ± 20 %	
N° magneti: 2		Magnet No.: 2	
Con ByPass		With ByPass	

PERFORMANCE

Tolleranza: ± 20 %

N° magneti: 2

Con ByPass

Impulsi / litro nominali: 310

5 - 30 L/min

PERFORMANCE

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

5 - 30 L/min

SERIE R - CONTALITRI R Series - Flow meter

R Series - Flow meter



PERFORMANCE

Impulsi / litro nominali: 240 N° r Tolleranza: ± 15 % Sen

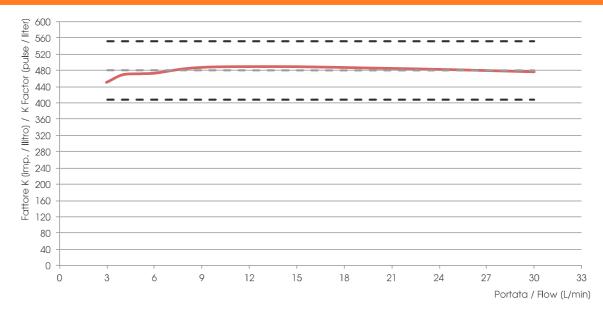
N° magneti: 2 Senza ByPass

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

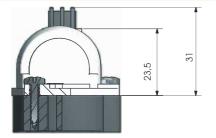
Impulsi / litro nominali: 480 N° magneti: 2 Tolleranza: ± 15 % Senza ByPass

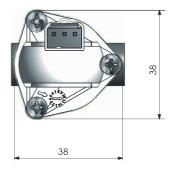
PERFORMANCE

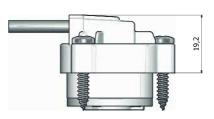
Nominal pulse / liter: 480 Tolerance: ± 15 % Magnet No.: 2 No ByPass

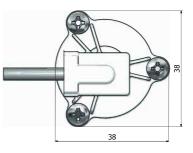
R Series - Flow meter

Contalitri



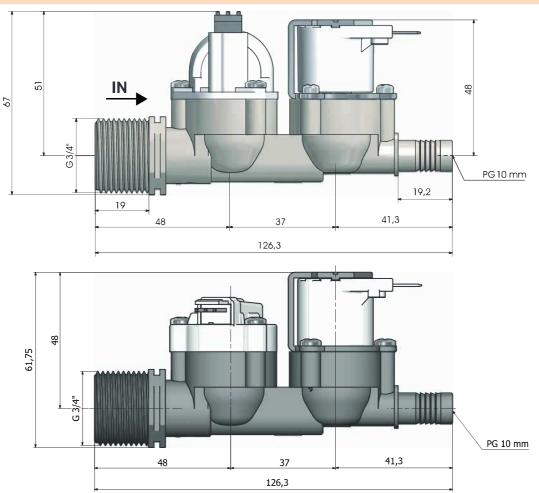






Serie R Dual Contalitri

R Series Dual Flow meter









Flow meter

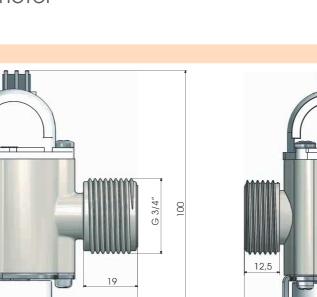
R Series - Flow meter

G 3/4"

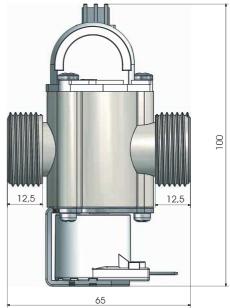
10

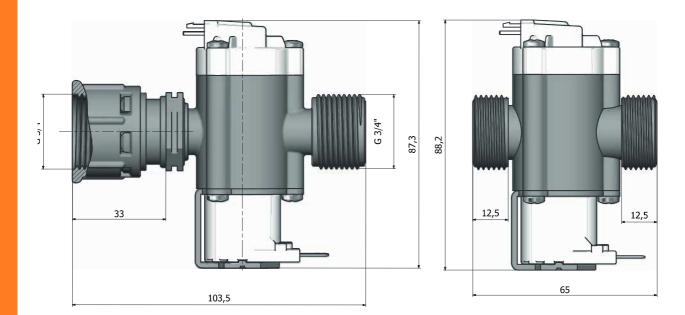
36

103



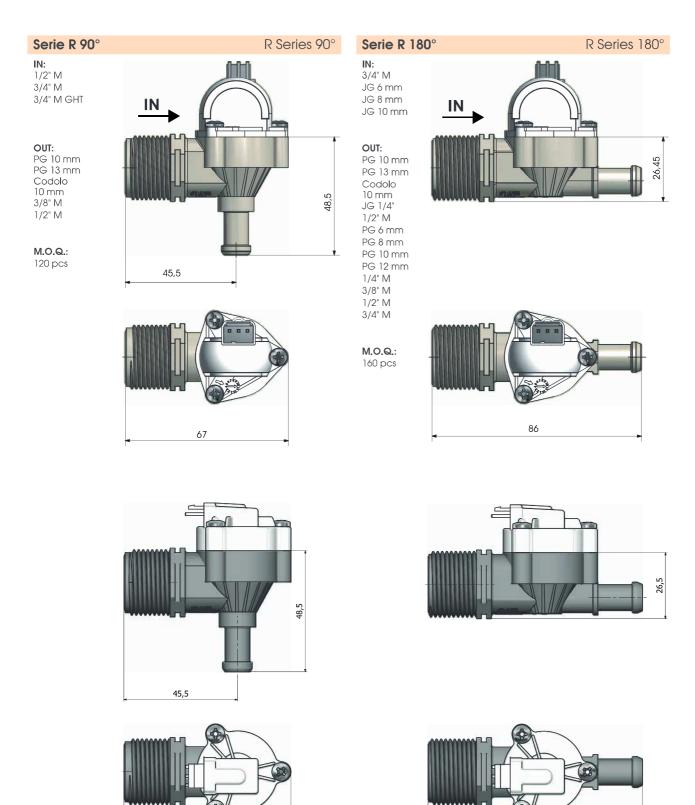
R Series Dual Flow meter







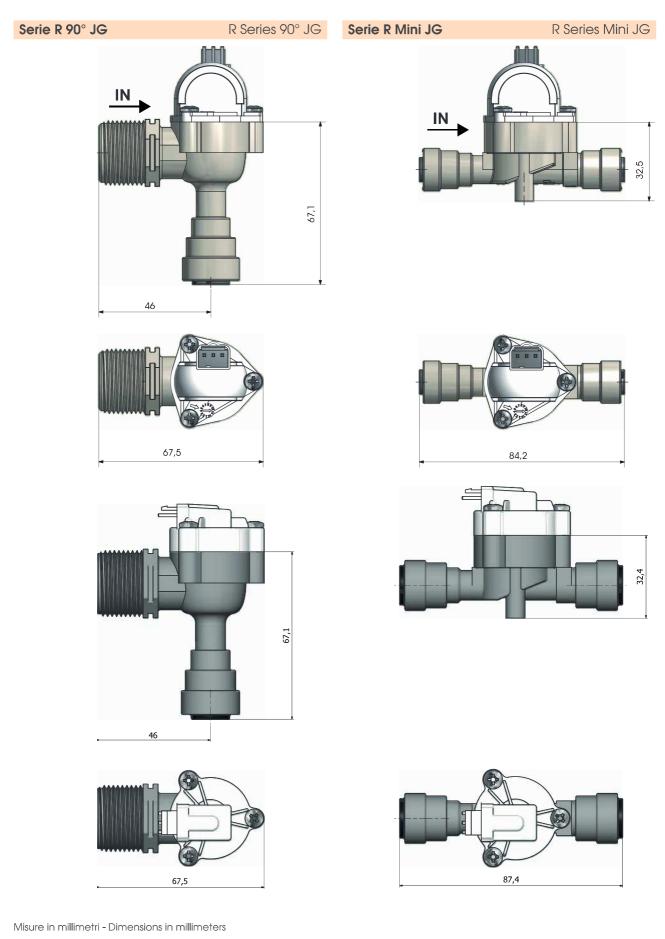
R Series - Flow meter



67

86

R Series - Flow meter

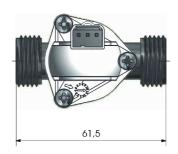


SERIE R - CONTALITRI R Series - Flow meter



R Series - Flow meter



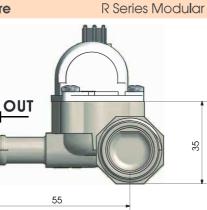


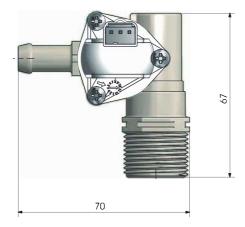
Serie R Modulare

IN: 3/4" M

OUT: JG 10 mm

M.O.Q.: 160 pcs





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Serie R Componibile 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

IN:

