RN 160 PRO

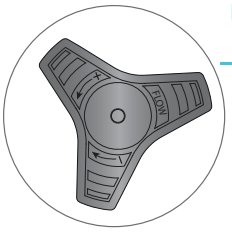
9 VDC **24 VAC** **MIN FLOW 75 l/min** **MAX FLOW 325 l/min**

Elettrovalvola
Electric valve

UPGRADE TECNICO
TECHNICAL UPGRADE

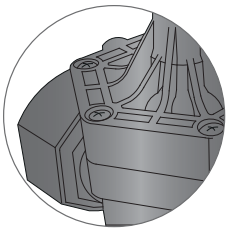
Nuovo design per una **presa facilitata.**

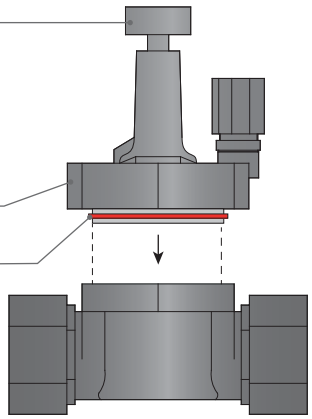
New design for **improved grip.**



Nuovo coperchio superiore **per alte prestazioni.** Più alto, più forte.

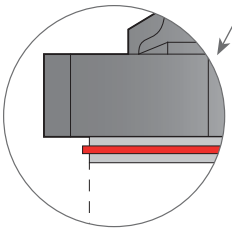
New up body for ***high performance.*** *Higher, stronger.*





O-ring di tenuta per **alte prestazioni.**

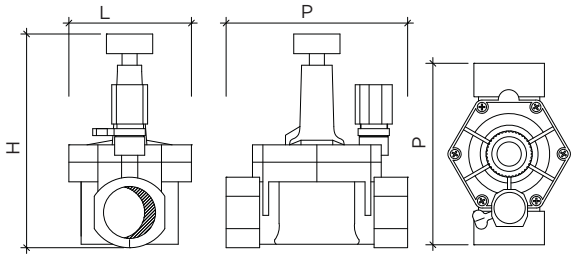
O-ring seal for ***high performance.***



Condizioni operative	*Operating conditions*
Pressione: min 1.0 bar - max 12.0 bar	*Pressure: min 1.0 bar - max 12.0 bar*
Temperatura: min +4°C - max 70°C	*Temperature: min +4°C - max 70°C*
Portata: min 75 l/min - max 325 l/min	*Flow rate: from 75 l/min to 325 l/min*
Fibra vetro PA 6 30%	*PA 6 30% fiberglass*
Membrana in parti co-stampata per una miglior tenuta in chiusura	*Single-piece diaphragm for reliable leak-free valve closing*
Astina in acciaio autopulente	*Self cleaning stainless-steel metering pin*
Molla della membrana in acciaio con azione progressiva	*Stainless-steel diaphragm differential spring for smooth closing*
PN12 testato pezzo per pezzo a 14 bar	*PN12 tested piece by piece at 14 bar*
Apertura manuale laterale	*Bleed handle for manual opening with internal bleed*

Perdite di carico / *Loss of charge in bar*

	1"	1"1/4	1"1/2	2"
75 l/min	0.20	0.20		
100 l/min	0.27	0.20	0.20	0.16
125 l/min	0.32	0.21	0.20	0.16
150 l/min	0.42	0.27	0.20	0.16
175 l/min	0.58	0.30	0.21	0.18
200 l/min	0.75	0.40	0.25	0.21
225 l/min		0.48	0.29	0.23
250 l/min		0.58	0.34	0.28
275 l/min		0.69	0.39	0.32
300 l/min			0.45	0.38
325 l/min				0.41



Dimensioni / *Dimensions* in cm

	1"F	1"1/4 F	1"1/2 F	2"F	2"MxU
H	18.4	18.4	18.4	18.4	18.4
P	14.5	14.8	15.7	18.3	17.5
L	10.6	10.6	10.6	10.6	10.6

Code	Models
100.5700911	E.V.RN 160 PRO FC 24VAC - 1"F
100.5701211	E.V.RN 160 PRO FC 24VAC - 1"1/4 F
100.5701511	E.V.RN 160 PRO FC 24VAC - 1"1/2 F
100.5701512	E.V.RN 160 PRO FC 24VAC - 1"1/2 F (CON BC)
100.5781511	E.V.RN 160 PRO 24VAC - 1"1/2 F WITH PRESSURE REGULATOR
100.5701516	E.V.RN 160 PRO FC 24VAC - 1"1/2 M X UN.
100.5701711	E.V.RN 160 PRO FC 24VAC - 2"F
100.5701712	E.V.RN 160 PRO FC 24VAC - 2"F (CON BC)

Code	Models
100.5701716	E.V.RN 160 PRO FC 24VAC - 2"M X UN.
164.5701511	E.V.RN 160 PRO FC 9VDC (AMP) - 1"1/2 F
164.5701711	E.V.RN 160 PRO FC 9VDC (AMP) - 2"F
164.5701516	E.V.RN 160 PRO FC 9VDC (AMP) - 1"1/2 M X UN.
164.5701716	E.V.RN 160 PRO FC 9VDC (AMP) - 2"M X UN.
164.5781511	E.V.RN 160 PRO 9VDC (AMP) - 1"1/2 F WITH PRESSURE REGULATOR
164.5771511	E.V.RN 160 PRO FC 9VDC (NO AMP) - 1"1/2 F
103.1603000	MEMBRANA / SPARE *DIAPHRAGM* RN 160 PLUS

RN 180

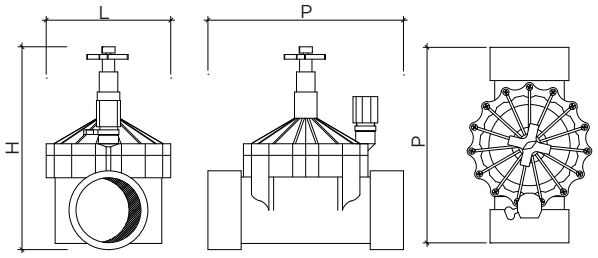
Elettrovalvola
Electric valve

9 VDC **24 VAC** **MIN FLOW 200 l/min** **MAX FLOW 1100 l/min**

Condizioni operative	*Operating conditions*
Pressione: min 1.0 bar - max 12 bar	*Pressure: min 1.0 bar - max 12.0 bar*
Temperatura: min +4°C - max 70°C	*Temperature: +4° C - 70° C*
Portata: min 200 l/min - max 1100 l/min	*Flow rate: from 200 l/min to 1100 l/min*
Fibra vetro PA 6 30%	*PA 6 30% fiberglass*
Membrana in parti co-stampata per una miglior tenuta in chiusura	*Single-piece diaphragm for reliable leak-free valve closing*
Astina in acciaio autopulente	*Self cleaning stainless-steel metering pin*
Molla della membrana in acciaio con azione progressiva	*Stainless-steel diaphragm differential spring for smooth closing*
PN12 testato pezzo per pezzo a 14 bar	*PN12 tested piece by piece at 14 bar*
Apertura manuale laterale	*Bleed handle for manual opening with internal bleed*

Perdite di carico / *Loss of charge in bar*

	2"	3"
200 l/min	0.07	0.05
300 l/min	0.09	0.07
400 l/min	0.12	0.09
500 l/min	0.14	0.12
600 l/min	0.16	0.14
700 l/min	0.19	0.16
800 l/min	0.25	0.18
900 l/min	0.31	0.23
1000 l/min	0.38	0.28
1100 l/min	0.47	0.35



Dimensioni / *Dimensions* in cm

	3"M	3"F	2"F
H	25.0	25.0	25.0
P	24.0	25.3	25.3
L	17.0	17.0	17.0

Code	Models
100.1802510	E.V.RN 180 FC 24VAC - 2"F
100.1882510	E.V.RN 180 FC 24VAC - 2"F WITH PRESSURE REGULATOR
100.1803410	E.V.RN 180 FC 24VAC - 3"F
100.1883410	E.V.RN 180 FC 24VAC - 3"F WITH PRESSURE REGULATOR
100.1803510	E.V.RN 180 FC 24VAC - 3"M

Code	Models
164.1802510	E.V.RN 180 FC 9VDC (AMP) - 2"F
164.1882510	E.V.RN 180 FC 9VDC (AMP) - 2"F WITH PRESSURE REGULATOR
164.1803410	E.V.RN 180 FC 9VDC (AMP) - 3"F
164.1883410	E.V.RN 180 FC 9VDC (AMP) - 3"F WITH PRESSURE REGULATOR
164.1803510	E.V.RN 180 FC 9VDC (AMP) - 3"M
103.1803000	MEMBRANA / SPARE *DIAPHRAGM* RN 180

RN 150

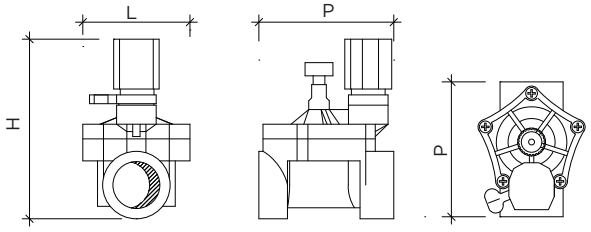
9 VDC **24 VAC** **MIN FLOW 20 l/min** **MAX FLOW 50 l/min**

Elettrovalvola
Electric valve

Condizioni operative	*Operating conditions*
Pressione: min 1.0 bar - max 12 bar	*Pressure: min 1.0 bar - max 12.0 bar*
Temperatura: min +4°C - max 70°C	*Temperature: +4° C - 70° C*
Portata: min 20 l/min - max 50 l/min	*Flow rate: from 20 l/min to 50 l/min*
Fibra vetro PA 6 30%	*PA 6 30% fiberglass*
Membrana in parti co-stampata per una miglior tenuta in chiusura	*Single-piece diaphragm for reliable leak-free valve closing*
Astina in acciaio autopulente	*Self cleaning stainless-steel metering pin*
Molla della membrana in acciaio con azione progressiva	*Stainless-steel diaphragm differential spring for smooth closing*
PN12 testato pezzo per pezzo a 14 bar	*PN12 tested piece by piece at 14 bar*
Apertura manuale laterale	*Bleed handle for manual opening with internal bleed*

Perdite di carico / *Loss of charge in bar*

	1/2"	3/4"	1"
20 l/min	0.35	0.35	0.30
30 l/min	0.52	0.52	0.45
40 l/min	0.70	0.60	0.60
50 l/min	0.80	0.80	0.70
60 l/min	0.80	0.80	0.70
70 l/min	0.85	0.85	0.75
80 l/min	0.95	0.95	0.85
90 l/min	1.05	1.05	0.95



Dimensioni / *Dimensions* in cm

	3/4"M	1"M	1/2"F	3/4"F	1"F	1"MxU	1"UxU
H	11.4	11.4	11.4	11.4	11.4	11.4	11.4
P	11.5	11.6	9.2	9.2	9.2	12.8	14.1
L	7.1	7.1	7.1	7.1	7.1	7.1	7.1

Code	Models
100.4500511	E.V. RN 150 FC 24VAC W/FC - 1/2"F
100.4500711	E.V. RN 150 FC 24VAC W/FC - 3/4"F
100.4400711	E.V. RN 150 FC 24VAC W/FC - 3/4"M
100.4500911	E.V. RN 150 FC 24VAC W/FC - 1"F
100.4400911	E.V. RN 150 FC 24VAC W/FC - 1"M
100.4400915	E.V. RN 150 FC 24VAC W/FC - 1"M X UN.

Code	Models
164.4500711	E.V.RN 150 FC 9VDC (AMP) W/FC - 3/4"F
164.4500911	E.V.RN 150 FC 9VDC (AMP) W/FC - 1"F
164.4400915	E.V.RN 150 FC 9VDC (AMP) W/FC - 1"M X UN.
103.1503000	MEMBRANA / SPARE *DIAPHRAGM* RN 150

ELETTROVALVOLE 180
ELECTRIC VALVES 180

- min 2.0 bar max 12 bar
- min 200 l/min max 1100 l/min
- min +4°C max 70°C
- 2" e 3"

Materiale: PA 6 30% Fibra vetro
Membrana in parti costampate
Astina in acciaio autopulente
Molla della membrana in acciaio
Apertura manuale sotto al solenoide
Parzializzatore opzionale

PA 6 30% fiberglass
Single-piece diaphragm
Self cleaning stainless-steel
Stainless-steel diaphragm differential spring
Bleed handle for manual opening
Flow Control

Rain S.p.A.
Via Kennedy 38/40
20023 Cerro Maggiore (MI) ITALY
Tel. +39.0331.514.511

Codice	Descrizione
100.1802510	RN 180 2"F 24VAC - W/FC
100.1803510	RN 180 3"M 24VAC - W/FC
100.1803410	RN 180 3"F 24VAC - W/FC

CARATTERISTICHE TECNICHE

- Materiale: PA 6 30% Fibra vetro
- Membrana in parti costampate per una miglior tenuta in chiusura
- Astina in acciaio autopulente
- Molla della membrana in acciaio con azione progressiva
- Apertura manuale sotto al solenoide
- Parzializzatore opzionale
- Solenoide certificato CE, IP 68 9
- Solenoide standard 24 VAC
- Solenoidi disponibili a 12 VDC; 24 VDC; 9 VDC LATCHING

INFO SIGLE

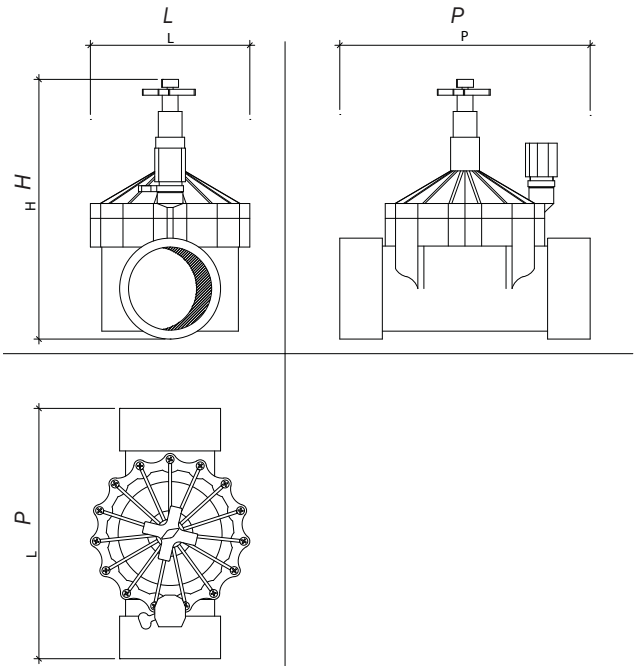
- 24 VAC = Solenoide 24 VAC premontato
  - Assorbimento allo spunto 0,43 A (Sol. 24 VAC)
  - Assorbimento al mantenimento 0,21 A (Sol. 24 VAC)
- W/FC = Parzializzatore di flusso
- M = Attacco maschio
- F = Attacco femmina
- UNION = Attacco con ghiera femmina

TECHNICAL INFORMATION

- PA 6 30% fiberglass
- Single-piece diaphragm for reliable leak-free valve closing
- Self cleaning stainless-steel metering pin
- Stainless-steel diaphragm differential spring for smooth closing
- Solenoid certificate CE, IP 68 9 PN12 tested piece by piece at 14 bar
- Bleed handle for manual opening with internal bleed
- Energy efficient solenoid 0,2 amp, 4,8 VA
- Standard solenoid: 24 VAC
- Available solenoid 12 VDC; 24 VDC; 110 VAC; 9 (6-40) VDC Latching
- Flow Control

INFO SIGLE

- 24 VAC = 24 VAC solenoid
- W/FC = Flow Control
- M = Male
- F = Female
- UNION = Manifold



	3" M	3" F	2" F
H	25.0	25.0	25.0
P	24.0	25.3	25.3
L	17.0	17.0	17.0

*Misure in cm

LOSS OF CHARGE (*)

	2"	3"
200 l/min	0.07	0.05
300 l/min	0.09	0.07
400 l/min	0.12	0.09
500 l/min	0.14	0.12
600 l/min	0.16	0.14
700 l/min	0.19	0.16
800 l/min	0.25	0.18
900 l/min	0.31	0.23
1000 l/min	0.38	0.28
1100 l/min	0.47	0.35

*In bar.