Technical Data

Toro > Electrovalves

> P220 Series

	mm			
	1"	1"½	2"	3"
Hei.	171	184	241	273
Wid.	92	92	156	156

DESCRIPTION:

Technical specifications

- Flow range:
  1": 18,9 ÷ 132,5 l/min
  1½": 113,6 ÷ 416,4 l/min
  2": 302,8 ÷ 681,4 l/min
  3": 567,8 ÷ 1.135,6 l/min
- Electrical operating pressure: 0,7 ÷ 15 bar
- Pressure regulation:
  output (EZR-30): 0,3 ÷ 2,0 bar
  output (EZR-100): 0,3 ÷ 7,0 bar
- Connection: 0,7 ÷ 15,0 bar
- Minimum difference (between inlet and outlet pressure) for pressure regulation: 0,7 bar
- Resistance to failure: 51,7 bar
- Configurations:
  in line / angled: 25, 40, 50 and 75 mm female connection
- Solenoid 118-5983: 24 V CA (50 Hz)
- Absorption at starting: 50 Hz: 0,34 A
- Absorption in steady state: 50 Hz: 0,2 A

Exclusive features

- Rugged construction in fiberglass reinforced nylon and stainless steel
- Internal and external bleeding
- Models with electric control and with pressure regulator
- No external tube in both models of pressure regulators
- Built-in Schrader valve for checking the downstream pressure
- Solenoid independent flow control
- Self-aligning cover to ensure correct installation
- Self-cleaning stainless steel needle
- Possibility of lowering the flow rate up to 18.9 l / min with EZReg device
- Low power consumption: the connection lines can be longer

Available options

- EZR-30 regulation module - EZReg: 0,3 ÷ 2,1 bar
- EZR-100 regulation module - EZReg: 0,3 ÷ 7,0 bar

Landscape

Code	Command	Connections	Regulator	Box
OVA070	24V 50Hz	1" F/F	Yes	24
OVA073	24V 50Hz	1"½ F/F	Yes	12
OVA075	24V 50Hz	2" F/F	Yes	4
OVA078	24V 50Hz	3" F/F	Yes	4
OVA272	DC with PRE-MOUNTED bistable solenoid	1" F/F	Yes	24
OVA273	DC with PRE-MOUNTED bistable solenoid	1"½ F/F	Yes	12
OVA274	DC with PRE-MOUNTED bistable solenoid	2" F/F	Yes	4
OVA275	DC with PRE-MOUNTED bistable solenoid	3" F/F	Yes	4

> Pressure Control and Measurement

Code	Description	Bar	
FRP550	Pressure regulator The EZReg® module regulates with flow rates as low as 0,3 bar by means of a 25 mm valve and differential pressure of only 0,7 bar Easy and quick installation pressure regulator, even under pressure, without the danger of water geysers	0,3 ÷ 7	
OAC070	Pressure detection kit		

P-220 SERIES - PRESSURE LOSS* - MH2O

Ø	Config.	Flow rate l/min																					
		40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	700	800	900	1.000	1.100
1"	In line	0,29	0,25	0,25	0,26	0,32	0,43	0,55	0,69	0,82													
1"	In line	0,29	0,35	0,21	0,20	0,21	0,29	0,38	0,49	0,61													
1½"	In line					0,12	0,14	0,18	0,23	0,28	0,43	0,62	0,85	1,11									
1½"	In line					0,09	0,10	0,13	0,17	0,22	0,34	0,48	0,65	0,85									
2"	In line											0,14	0,20	0,25	0,32	0,40	0,48	0,54					
2"	In line											0,08	0,12	0,15	0,19	0,24	0,29	0,32					
3"	In line																	0,18	0,24	0,32	0,41	0,52	0,65
3"	Angle																	0,14	0,19	0,26	0,34	0,43	0,54

Note: when designing an irrigation system, take into account the total head loss to ensure sufficient downstream pressure for the proper functioning of the sprinklers
For optimal regulation performance, choose the valve in anticipation of the highest flow range - it is recommended that the flow rate does not exceed a pressure drop of 0,3 bar
Values expressed in bar - for values in kPa, multiply the values in the table by 100 - for values in kg / cm^2, multiply the values in the table by 1,02
*Data taken with EZReg pressure regulator mounted. The data remains unchanged with or without pressure regulation.