TORO 220 BRASS SERIES VALVES



Heavy-duty brass construction for superior performance under the harshest conditions. Toro 220 Brass Series valves are rugged and reliable, and offer dependable performance within the toughest of situations and settings.

FEATURES & BENEFITS

Leading Lighting Protection (Spike Guard™)

A lightning rating that exceeds 20,000 volts – nearly three times the protection of competing products.

Dirty Water Ready

A stainless steel 120-mesh filter enables dependable valve operation in dirty and reclaimed water applications with a greatly reduced likelihood of clogging or failure to close.

Spike Guard™ Solenoid

Reduces wire size requirements and allows 2X as many valves to run simultaneously on a transformer, all while lowering power consumption and related costs.

24V AC Solenoid (118-5982)

Available with Toro standard 24V AC solenoid with captive hex plunger and 18 leads.

EZReg® Pressure Regulator compatible

Available in two fully-adjustable models, Toro EZReg Pressure Regulators allow the consistent regulation of pressure within a zone, ensuring optimal operation of all downstream sprinklers. EZReg Pressure Regulators thread directly to the valve bonnet – no special adaptor required and no need to remove the solenoid. The desired pressure can be set fast and with a high level of accuracy thanks to an easy-to-read turn dial design.



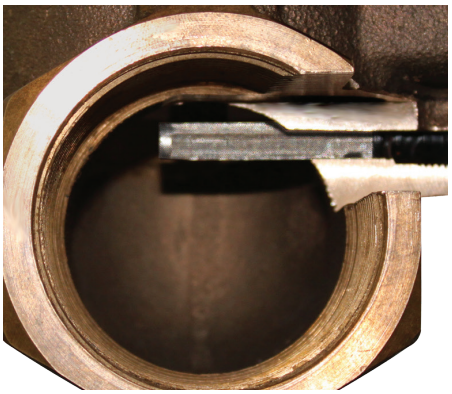
Notes: *All come with Effluent Sticker and Label. Compatible with DC Latching Solenoid and 24VAC solenoid*

Effluent Options Available

Spike Guard™ Standard

Pressure Regulation

24V AC and DC Latching Solenoid Option



Dirty Water Resistance
The 120 mesh stainless steel filter screen is positioned on the supply side of the water stream. It is constantly flushed by the flow, enabling the use of very dirty water without clogging. Stainless steel construction of both the filter screen and the valve solenoid seat ensures long component life in all types of water and pressures.

SPECIFICATIONS

Operational

- Flow Range:
  - 1" model: 5 to 40 gpm
  - 1 1/4" model: 20 to 100 gpm
  - 1 1/2" model: 20 to 130 gpm
  - 2" model: 30 to 180 gpm
  - 2 1/2" model: 60 to 250 gpm
  - 3" model: 80 to 350 gpm
- Operating Pressure: 10 to 220 psi
- Pressure Regulating:
  - Outlet (EZR-30): 5 to 30 psi ± 3
  - Outlet (EZR-100): 5 to 100 psi ± 3
- Inlet: 10 to 220 psi
- Minimum Pressure Differential (between inlet and outlet) for Pressure Regulation:
  - 1", 1 1/4", and 1 1/2" models: 10 psi
  - 2", 2 1/2", and 3" models: 20 psi
- Burst Pressure Safety Rating: 750 psi
- Body Styles:
  - Globe orientation – 1", 1 1/4", 1 1/2", and 2" models, female threads
  - Angle orientation – 2 1/2" and 3" models, female threads
- Spike Guard™ Solenoid: 24V AC (50/60 Hz)
  - Inrush – 60 Hz; 0.12 amps
  - Holding – 60 Hz; 0.1 amps

Options Available

- EZReg®, 5-30 psi adjustable Pressure Regulator (EZR-30)
- EZReg®, 5-100 psi adjustable Pressure Regulator (EZR-100)
- Effluent Water Solenoid and warning tag; lavender color, 24V AC / 60 Hz (EFF-KIT-60HZ)
- 24V AC Solenoid; 60 Hz, 18-inch leads, and captive plunger (118-5982)
- Potted DC Latching Solenoid (DCLS-P)

Dimensions

- 1" model: 5 1/4" H x 5" W
- 1 1/4" model: 6 1/2" H x 6" W
- 1 1/2" model: 6 1/2" H x 6" W
- 2" model: 7 1/2" H x 7" W
- 2 1/2" model: 8 3/4" H x 8 1/2" W
- 3" model: 8 3/4" H x 8 1/2" W

Warranty

- Five years

220 BRASS SERIES MODEL LIST

Model	Description
220-26-04	1" Inlet/Outlet; Globe
220-26-05	1 1/4" Inlet/Outlet; Globe
220-26-06	1 1/2" Inlet/Outlet; Globe
220-26-08	2" Inlet/Outlet; Globe
220-26-09	2 1/2" Inlet/Outlet; Angle
220-26-00	3" Inlet/Outlet; Angle
PRESSURE REGULATED WITH EZREG®	
220-27-04	1" Inlet/Outlet; Globe
220-27-05	1 1/4" Inlet/Outlet; Globe
220-27-06	1 1/2" Inlet/Outlet; Globe
220-27-08	2" Inlet/Outlet; Globe
220-27-09	2 1/2" Inlet/Outlet; Angle
220-27-00	3" Inlet/Outlet; Angle
WITH 24V AC SOLENOID	
220-26-74	1" Inlet/Outlet; Globe
220-26-75	1 1/4" Inlet/Outlet; Globe
220-26-76	1 1/2" Inlet/Outlet; Globe
220-26-78	2" Inlet/Outlet; Globe

Model	Description
WITH LATCHING SOLENOID	
220-26-94	1" Inlet/Outlet; Globe
220-26-95	1 1/4" Inlet/Outlet; Globe
220-26-96	1 1/2" Inlet/Outlet; Globe
220-26-98	2" Inlet/Outlet; Globe
220-26-99	2 1/2" Inlet/Outlet; Angle
220-26-90	3" Inlet/Outlet; Angle
ELECTRIC VALVES LESS SOLENOID	
220-26-64	1" Inlet/Outlet; Globe
220-26-66	1 1/2" Inlet/Outlet; Globe
220-26-68	2" inlet/outlet; Globe
220-26-60	3" inlet/outlet; Angle

Additional Features

- Commercial-grade 316 Stainless Steel stem for maximum corrosion resistance
- Manual Flow Control; adjustable to full shut-off
- Robust, double-beaded, fabric-reinforced rubber diaphragm
- Built-in Schrader-type valve is standard on all models for fast downstream pressure verification
- EZReg® Pressure Regulator can be installed as a service kit without having to drain the main line
- Pressure regulates in electric or manual modes, and is serviceable under pressure

220 BRASS SERIES FRICTION LOSS DATA

Model	Type	Gallons Per Minute																		
		5	10	15	20	30	40	50	60	70	80	100	120	150	170	180	200	250	300	350
1"	Electric	1.8	2.0	2.2	3.1	5.1	7.8													
1 1/4"	Electric				1.9	2.5	2.7	3.5	4.1	5.6										
1 1/2"	Electric				2.2	2.5	2.8	3.1	3.8	5.0	6.6									
2"	Electric					3.1	3.2	2.9	3.0	3.3	3.4	4.5	6.6	10.1	13.5	14.9				
2 1/2"	Electric								2.0	2.2	2.3	2.4	2.5	3.0	4.0	4.5	5.5			
3"	Electric										2.2	2.4	2.5	3.0	4.0	4.5	5.5	6.5	7.0	7.5

Notes: *For optimal performance when designing a system, it is recommended that total friction loss be calculated to ensure sufficient downstream pressure. For optimum pressure regulation performance, size regulating valves towards the higher flow ranges. Flow rates are recommeded not to exceed 5 psi loss.*

Specifying Information – 220 Brass Series

220-2X-X-X

Model	*Type*	*Solenoid*	*Thread Size*	
220	**2X**	**X**	**X**	
220-220 Series Brass Valve	6 - NPT, Electric 7 - NPT, Pressure-regulated (5-100 psi)	0 - Spike Guard™ Solenoid 6 - Less Solenoid 7 - 24V AC 9 - DC Latching Solenoid	4—1" 5—1 1/4" 6—1 1/2"	8—2" 9—2 1/2" 0—3"

Example: A 1" NPT, pressure-regualted 220 Series Brass Valve with Spike Guard Solenoid, would be specificed as: **220-27-04**

Note: *1", 1 1/2" and 2"—globe configuration. 2 1/2" and 3"—angle configuration.*

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