

# **300-BPES Brass Valves**

3" Brass Master Valve - Globe and angle configuration

#### Features

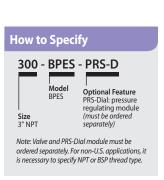
- Unique hybrid construction featuring durable red brass body and glassfilled nylon bonnet for long life at a value price
- · Normally closed, forward flow design
- Slow closing to prevent water hammer and subsequent system damage
- Robust solenoid provides dependable performance even during constant operation
- Flow control handle adjusts water flows as needed and incorporates a brass thread insert for longer life
- Manual internal bleed operates the valve without allowing water into the valve box. Allows pressure regulator adjustment without turning the valve on at the controller
- Manual external bleed permits flushing debris from the system.
  Recommended for system start up and repairs
- · Highly efficient operation with extremely low pressure loss
- Patented nylon scrubber scrapes a stainless steel screen to clean and break down grit and plant material. Prevents debris build-up and clogging
- · Three-year trade warranty

### **Options**

- Accommodates field-installed PRS-D pressure regulating module to ensure optimum sprinkler performance
- Purple flow control handle for non-potable water applications (BPE-NP-HAN)
- Latching solenoid for use with Rain Bird battery-operated controllers up to 150 psi (10.4 bar)

# **Specifications**

- Pressure: 20 to 200 psi (1.4 to 13.8 bar)
- Flow with/without PRS-D option: 60 to 300 gpm (13.6 to 68.1 m<sup>3</sup>/h; 3.78 to 18.90 l/s)
- Temperature: up to 140° F (60° C)
- Power: 24 VAC 50/60 Hz (cycles per second) solenoid
- Inrush current: 0.41 A (9.8 VA) at 50/60Hz
- Holding current: 0.28 A (6.7 VA) at 50/60Hz
- · Coil resistance: 28 Ohms, nominal





300-BPES

BPES 3" Valve Pressure Loss (psi)						
Flow gpm	Globe	Angle				
60	6.6	6.8				
80	5.1	5.9				
100	3.2	3.5				
120	1.8	1.8				
140	1.8	2.1				
160	2.0	2.1				
180	2.2	2.0				
200	2.7	2.5				
250	4.0	3.4				
300	4.9	4.5				

BPES 3"	METRIC		
Flow m³/h	l/s	Globe	Angle
13.6	227	0.46	0.47
24	400	0.19	0.21
36	600	0.14	0.14
48	800	0.21	0.19
60	1000	0.29	0.26
68	1136	0.34	0.31

#### Notes

- 1. Loss values are with flow control fully open
- 2. PRS-Dial module recommended for all flow rates

## **Dimensions**

Model	Height	Length	Width
• 300	135/8" (34.61 cm)	8" (20.32 cm)	7" (17.78 cm)

### **Models**

• 300-BPES: 3" NPT

BSP threads available; specify when ordering

### Recommendations

- Rain Bird recommends flow rates in the supply line not to exceed 7.5 ft/sec (2.29 m/s) in order to reduce the effects of water hammer.
- 2. For flows below 5 gpm (1.14 m³/h; 19.2 l/m), Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm.
- 3. For flows below 10 gpm (2.27 m3h; 37.8 l/m) Rain Bird recommends the flow control stem be turned down two full turns from the fully open position.



**BPES Cutaway**