

ELECTRIC GLOBE/ANGLE

200B SERIES

V A L V E S



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The 200B Series globe/angle valves have built their popularity on a proven record of reliability and a reputation for offering valuable features at an affordable price.

Available in 1-, 1 ½- and 2-inch models, the 200B Series provides manual internal and external bleed, heavy-duty, UV-resistant PVC construction, stainless steel hardware, a double-beaded diaphragm and a captive solenoid plunger. Other key features include high-strength ribbed bonnet and bottom inlet, threaded inlet plug O-ring seal, and optional flow control on all models. Plus, the 200B Series is designed to close slowly, reducing water hammer.

The 200B Series — proven reliability, sensibly priced.

**Irritrol**<sup>®</sup>  
SYSTEMS

**200B SERIES**

**V A L V E S**

**1", 1½" and 2"**  
plastic models

**Features**

Performance

- Flow range from 5-120 GPM
- Pressure range from 20-150 psi
- Manual internal bleed
- Manual external bleed (flush mode)
- Slow-closing design reduces water hammer
- Optional flow control allows precise flow adjustment and manual shutoff

**Quality Construction**

- Heavy-duty, corrosion- and UV-resistant PVC construction with stainless steel spring and hardware
- Rugged, double-beaded SANTOPRENE® diaphragm provides leak-proof seal
- Buna-N valve seat seal
- High-strength ribbed bonnet and bottom inlet
- Unique, threaded inlet plug O-ring seal prevents leaks

- Encapsulated injection-molded solenoid
- Captive plunger
- Easily serviced without removal from the system
- Unique three-way stainless steel bonnet screws accept Phillips, flatblade and hex-driver tools
- Accepts OmniReg™ modular pressure regulator

**Pressure Regulation (OmniReg™ modular option)**

- Electric or manual operation
- Pressure setting dial
- Self-modulating pressure regulator maintains constant downstream pressure within ± 3 psi of pressure setting
- Outlet pressure regulating range from 5-100 psi or 5-30 psi with Schrader valve test port (SPK-100 and SPK-30 gauges optional)
- Retrofits in less than one minute
- Inlet pressure must be 10 psi greater than desired outlet pressure

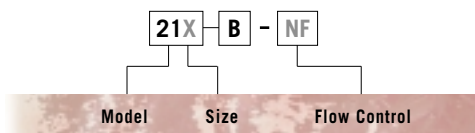
**Electrical Specifications**

- Solenoid: 24 V ac
- Inrush volt-amp: 24 V ac-11.50 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V ac-5.75 VA
- Holding current: .2 amp

**Optional Accessories**

- OmniReg 5-100 psi regulator (OMR-100)
- OmniReg 5-30 psi regulator (OMR-30)
- Weatherproof gauge (SPK-100)
- Weatherproof gauge (SPK-30)
- Reclaimed water solenoid kit (RW60-Kit); purple solenoid with purple warning tag
- DC latching solenoid (E2002-A)

**Specifying Information**



Model	Size	Flow Control
214B	1" (25mm)	yes
214B-NF	1" (25mm)	no
216B	1½" (40mm)	yes
216B-NF	1½" (40mm)	no
217B	2" (50mm)	yes
217B-NF	2" (50mm)	no

**U.S.**

Model	Size	Globe Angle	Flow Rate-GPM												Pressure Loss-PSI	
			5	10	15	20	30	40	50	60	80	100	120			
214B	1"	G	3.36	2.60	1.82	2.35	5.40	9.73	---	---	---	---	---	---	---	
		A	3.09	2.20	1.48	1.98	4.00	8.12	---	---	---	---	---	---	---	
216B	1½"	G	---	---	---	3.04	2.66	2.33	2.97	4.14	5.62	---	---	---		
		A	---	---	---	2.76	2.24	1.99	2.30	3.10	4.42	---	---	---		
217B	2"	G	---	---	---	2.00	1.93	1.73	1.55	1.68	2.99	4.85	6.31	---		
		A	---	---	---	2.00	1.93	1.73	1.55	1.59	2.15	3.27	4.88	---		

- 1) When designing a system, the industry standard for flow rate velocity through pipes and fittings is 5 FPS.
- 2) Pressure loss data are derived from valves independently tested by CIT, Fresno, CA.
- 3) In general, we recommend sizing regulating valves toward upper flow ranges for best regulating performance.

**Metric**

Flow L/M	214B Globe		214B Angle		216B Globe		216B Angle		217B Globe		217B Angle	
	Bar	kPa	Bar	kPa	Bar	kPa	Bar	kPa	Bar	kPa	Bar	kPa
20	0.23	22.9	0.21	21.0								
40	0.17	17.3	0.15	14.6								
60	0.13	13.2	0.11	10.8								
80	0.19	18.6	0.15	15.2	0.21	20.7	0.19	18.6	0.14	13.7	0.14	13.7
100	0.30	29.7	0.23	22.6	0.19	19.3	0.17	16.7	0.14	13.5	0.14	13.5
150	0.66	66.0	0.55	54.9	0.16	16.1	0.14	13.8	0.12	12.0	0.12	12.0
200					0.23	22.8	0.17	17.4	0.11	10.9	0.11	10.8
250					0.32	31.6	0.24	24.1	0.14	14.3	0.12	12.1
300					0.38	38.4	0.30	30.1	0.20	20.3	0.15	14.7
375									0.33	32.9	0.22	22.2
450									0.43	43.0	0.33	33.0

Note: Add "-M" for BSP thread, 50Hz configuration, i.e., "217B-M."



BEYOND THE EXPECTED

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