

100 SERIES ELECTRICAL GLOBE/ANGLE
CENTURY PLUS & 102 ANTI-CONTAMINATION MODEL

1", 1 1/2", 2" AND 3"
(25MM, 40MM, 50MM, AND 75MM)
PLASTIC MODELS



**FOR PETE'S SAKE,
LET'S ONLY DO
THIS ONCE.**

KEY FEATURES & BENEFITS

TOUGH, GLASS-REINFORCED NYLON, STAINLESS STEEL AND BRASS CONSTRUCTION

Withstands high temperatures and system surges under pressure for long-term reliability

200 PSI (14 BAR) PRESSURE RATING

Prevents water hammer and system damage in high-pressure installations

INTERNAL AND EXTERNAL BLEED (FLUSH MODE)

Manual operation

EXTERNALLY REMOVABLE SELF-CLEANING METERING SYSTEM

Provides consistent performance in recycled-water applications

ACCEPTS OMNIREG™ MODULAR PRESSURE REGULATOR

Ensures consistent performance

102 ANTI-CONTAMINATION MODELS*

150-MESH EXTERNAL CONTROL WATER FILTER AND THREE-WAY SOLENOID

Provides non-continuous metering for recycled water applications

CONTROL WATER FILTER

Allows easy external service

SELECTABLE NORMALLY OPEN OR NORMALLY CLOSED MODE (FACTORY SET AT NORMALLY CLOSED)

Provides flexibility

*Not compatible with IBOC-300, OmniReg and E2003 DC Latching Solenoid

The Irritrol® 100 Series (Century PLUS) is an excellent example of a good valve getting better. Tracing its origin to the highly popular Century Series, the 100 Series delivers reliable performance with a host of enhanced features. Offered in a globe/angle configuration with sizes ranging from one to three inches, the 100 Series features a pressure range of 10- 200 psi, optional modular pressure regulation, stainless steel metering, internal and external bleed, a nylon-reinforced Buna-N double-beaded diaphragm and an anti-contamination design for dirty water applications (available on all 102 Models).

Irritrol. **Get more done.**

ADDED FEATURES

- Flow control allows precise flow adjustment and manual shutoff
- Buna-N valve seat seal
- Encapsulated injection-molded solenoid with a captive hex plunger
- Positive O-ring seal on inlet plug prevents leaks without damaging seal threads
- Molded-in and anchored studs allow positive bonnet attachment and removal
- Brass flow control stem on 2- and 3-inch (50mm and 75mm) models
- Easily serviced without removal from the system
- Five-year warranty

OPERATING SPECIFICATIONS

- Flow range: 5-300 GPM (20-1,135 L/M)
- Pressure range: 10-200 psi; (0,7-14 Bars) 10-100 psi (0,7-7 Bars) (102 models)

ELECTRICAL SPECIFICATIONS

- Solenoid: 24 V ac
- Inrush volt-amp: 24 V ac-9.6 VA
- Inrush current: .4 amp (102 models: .48 amp)
- Holding volt-amp: 24 V ac-4.8 VA
- Holding current: .2 amp (102 models: .24 amp)

DIMENSIONS

- **100P1:** H: 6 3/4", W: 3 5/8", D: 4 3/4"
- **102P1:** H: 7 1/2", W: 5", D: 4 3/4"
- **100P1.5:** H: 7 1/4", W: 3 5/8", D: 4 3/4"
- **102P1.5:** H: 7 1/2", W: 5", D: 4 3/4"
- **100P2:** H: 9 1/2", W: 6 1/8", D: 7 3/4"
- **102P2:** H: 10 1/4", W: 7 1/2", D: 7 3/4"
- **100P3:** H: 10 3/4", W: 6 1/8", D: 8 1/4"
- **102P3:** H: 11 1/2", W: 7 1/2", D: 8 1/2"

OPTIONAL ACCESSORIES

- Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag 100 Series
- IBOC300-9V battery operated "on valve" controller
- OmniReg™ 5-30 psi (0,34-2 Bars) regulator (OMR-30)
- OmniReg™ 5-100 psi (0,34-7 Bars) regulator (OMR-100)
- DC latching solenoid (DCL).
NOTE: Maximum pressure for a valve that utilizes latching solenoid is 120 psi (8 Bars).
- Weatherproof gauge (SPK-30)
- Weatherproof gauge (SPK-100)
- Hydraulic conversion kit (HVC-Kit)

SPECIFYING INFORMATION

100P-X		102P-X	
MODEL	SIZE	MODEL	SIZE
100P1	1" (25mm)	102P1	1" (25mm)
100P1.5	1 1/2" (40mm)	102P1.5	1 1/2" (40mm)
100P2	2" (50mm)	102P2	2" (50mm)
100P3	3" (75mm)	102P3	3" (75mm)

* Optional accessories are field-installable. Must specify separately if required.

FRICITION LOSS DATA

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM												
			5	10	20	30	40	50	60	70	80	90	100	110	
100P1/ 102P1	1"	G	6.30	4.20	3.20	4.10	7.20	10.90							
		A	6.30	4.20	3.10	2.70	4.80	7.90							
100P1.5/ 102P1.5	1 1/2"	G				1.60	2.30	3.60	5.20	7.00	9.20	11.70	14.40	7.50	
		A				1.30	1.60	2.80	4.00	5.50	7.10	9.00	11.00	13.30	

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM														
			80	90	100	110	120	130	140	150	175	200	225	250	275	300	
100P2/ 102P2	2"	G	2.10	2.70	3.30	4.00	4.80	5.60	6.50	7.50	8.60						
		A	1.20	1.60	2.00	2.40	2.80	3.30	3.90	4.40	5.00						
100P3/ 102P3	3"	G									2.50	3.00	4.10	5.30	6.70	8.30	10.10
		A									1.90	2.40	3.30	4.30	5.50	6.90	8.50

1) Pressure loss data are derived from valves independently tested by CIT, Fresno, CA.

Flow	Flow Rate - L/M															
	100-1 GLOBE		100-1 ANGLE		100-1.5 GLOBE		100-1.5 ANGLE		100-2 GLOBE		100-2 ANGLE		100-3 GLOBE		100-3 ANGLE	
	Bar	kPa	Bar	kPa	Bar	kPa	Bar	kPa	Bar	kPa	Bar	kPa	Bar	kPa	Bar	kPa
20	0,43	43,4	0,43	43,4												
40	0,28	28,3	0,28	28,3												
60	0,24	23,6	0,24	23,6												
80	0,22	22,1	0,21	20,8												
100	0,25	24,8	0,19	19,1												
120	0,32	31,8	0,22	21,6	0,12	11,8	0,09	9,2								
140	0,43	42,6	0,30	29,5	0,14	14,2	0,10	10,1								
160	0,55	54,6	0,39	38,5	0,17	17,4	0,12	12,2								
180	0,69	68,6	0,49	49,2	0,22	22,2	0,17	16,8								
200	0,83	83,4	0,61	60,6	0,28	27,9	0,22	21,8								
250					0,43	43,1	0,34	33,6								
300					0,62	62,1	0,48	47,9	0,14	14,2	0,08	8,10				
350					0,85	85,2	0,65	65,4	0,20	19,6	0,12	11,7				
400					1,11	111,0	0,84	84,5	0,25	25,4	0,15	15,4				
450									0,32	32,5	0,19	19,0				
500									0,40	39,8	0,24	23,6				
550									0,48	48,4	0,29	28,8				
600													0,18	18,1	0,14	14,1
650													0,20	20,0	0,16	16,0
700													0,23	23,3	0,19	18,8
750													0,28	27,6	0,22	22,2
800													0,32	32,0	0,26	25,8
850													0,36	36,4	0,30	29,5
900													0,41	41,3	0,34	33,7
950													0,47	46,5	0,38	38,3
1000													0,52	52,3	0,43	43,1
1050													0,58	58,3	0,49	48,6
1100													0,65	65,0	0,54	54,4

Note: Add "-BSP" for BSP threads. 50Hz configuration, i.e., "100-1-BSP"