

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

**FLOWRITE II**®

## Heavy Duty Series 597 Iron Type SI Balanced Control Valve

The rugged Powers Flowrite II Type SI balanced (single seat iron body) control valve is primarily used for steam and water modulating applications with moderate pressure drops. The SI valve is available with the Powers 46 in<sup>2</sup> and 100 in<sup>2</sup> actuators. Actuator selection depends on valve size and flowing system pressure drop across the valve.

### Specifications

Body Sizes:	2½" – 6"
Body Material:	Cast Iron (per ASTM A126-93 Class B)
End Connections:	125 # Flanged (per ANSI B16.1-1993)
Trim:	Bronze/EPDM
Packing:	Spring loaded TFE/EPDM packing
Seat:	ANSI Class IV; < 0.01%
Close-off Pressure	125psi
Cv Range:	2½" 56 3" 85 4" 145 5" 240 6" 370
Rangeability:	100:1
Characteristics:	Equal Percent
Maximum Pressure:	200psi @ Temp. <150°F
Max. Differential Pressure:	50psi
Temperature Range:	20° – 281° F



### Actuator Specifications

Housing Construction:	Die cast aluminum
Diaphragm Construction:	Replaceable molded neoprene
Diaphragm Area:	2½" – 5" 46 in <sup>2</sup> 6" 100 in <sup>2</sup>
Ambient Shipping Limits:	- 40 to 220° F
Ambient Operating Limits:	- 20 to 220° F
Air Connection:	46 in <sup>2</sup> ¼" NPT 100 in <sup>2</sup> ⅜" NPT
Position Indication:	⅛" increments
Mounting:	In any upright position with actuator head above 45° of the center line of the valve body. Actuator head may be swiveled to any convenient position.

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

## Ordering Information

597- **S** **I**

Size	Order Code											
2 1/2"	250											
3"	300											
4"	400											
5"	500											
6"	600											
<b>End Connections</b>												
125# Flange	F											
<b>Valve Trim</b>												
Bronze	B											
<b>Action</b>												
Fall Open (Air-to-Close)	X											
Fall Closed (Air-to-Open)	C											
<b>Packing</b>												
Spring loaded TFE/EPDM	T											

**Accessories  
Select Code**  
(see below)

**Actuator  
Select Code**  
(see below)

### Actuator Select Code

CODE	PNEUMATIC DIAPHRAGM ACTUATORS
4C	46 in <sup>2</sup> , 1" Max Valve Stroke with Extreme Cycle Springs adjustable start w/6-12 lb. span
1U (For 6" Valve only)	100 in <sup>2</sup> ; 8-13 psi Spring Range, (Normally Closed Valves)
1L (For 6" Valve only)	100 in <sup>2</sup> ; 3-8 psi Spring Range, (Normally Open Valves)

### Accessories Select Code

CODE	DESCRIPTION
	<b>Bellofram 1000 I/P'S</b>
IS	3-15 psi
TS	1-17 psi
US	3-27 psi
	<b>CONTROL/AIR TYPE 900X I/P</b>
ES	0-30 psi
	<b>UTILITY POSITIONER AND I/P</b>
BS	4-20 m
	<b>AUTILITY POSITIONER</b>
PS	3-15 psi
RS	3-9 psi
SS	9-15 psi
	<b>NO ACCESSORIES</b>
OS	No Accessories

# POWERS™

A WATTS Brand

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 Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • PowersControls.ca  
 Latin America: Tel: (52) 81-1001-8600 • PowersControls.com