

## 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

# FLOWRITE II®

## Heavy Duty 597 Series Series 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.

# 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.

## ORDERING INFORMATION

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

Size	Order Code
2 1/2"	250
3"	300
4"	400
5"	500
6"	600

End Connections	Order Code
125# Flange	F

Valve Trim	Order Code
Bronze	B

Action	Order Code
Fail Open (Air-to-Close)	X
Fail Closed (Air-to-Open)	C

Packing	Order Code
Spring loaded TFE/EPDM	T

**ACCESSORIES  
SELECT CODE**  
(see below)

**ACTUATOR  
SELECT CODE**  
(see below)

## ACTUATOR SELECT CODE

CODE	PNEUMATIC DIAPHRAGM ACTUATORS
<b>4C</b>	46 in <sup>2</sup> , 1" Max Valve Stroke with Extreme Cycle Springs adjustable start w/6-12 lb. span.
<b>1U</b> (For 6" Valve only)	100 in <sup>2</sup> ; 8-13 psi Spring Range, (Normally Closed Valves)
<b>1L</b> (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>	
<b>IS</b>	3-15 psi
<b>TS</b>	1-17 psi
<b>US</b>	3-27 psi
<b>CONTROL/AIR TYPE 900X I/P</b>	
<b>ES</b>	0-30 psi
<b>UTILITY POSITIONER AND I/P</b>	
<b>BS</b>	4-20 mA
<b>UTILITY POSITIONER</b>	
<b>PS</b>	3-15 psi
<b>RS</b>	3-9 psi
<b>SS</b>	9-15 psi
<b>NO ACCESSORIES</b>	
<b>OS</b>	No Accessories

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Temperature Switches  
Capillary Bulb Type



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