

FLOWRITE II[®]

Heavy Duty 596 Series Iron Type SI Control Valve



Valve Specifications:

- **Body Sizes:**
2 1/2" - 6"
- **Body Material:**
Cast Iron (per ASTM
A126-93 Class B)
- **End Connections:**
125 # Flanged (per ANSI
B16.1-1993)
- **Trim:**
Bronze Composition Disc
- **Packing:**
Spring loaded TFE packing
- **Seat :**
ANSI Class IV; < 0.01%
- **Cv Range:**
2-1/2" 56
385
4 145
5 235
6 350
- **Rangeability:**
75:1
- **Characteristics:**
Equal Percent
- **Maximum Pressure:**
200 psi @ Temp. <150°F
- **Max. Differential Pressure:**
50 psi
- **Temperature Range:**
40° - 281° F

The rugged Powers Flowrite II Type SI (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 in² and 100 in² 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:**
46 in², 100 in²
- **Maximum Pressure and Temperature:**
35 psi and 200°F
- **Ambient Shipping Limits:**
- 40 to 220° F
- **Ambient Operating Limits:**
- 20 to 220° F
- **Air Connection:**
46 in² 1/4" NPT
100 in² 1/8" NPT
- **Position Indication:**
1/8" 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

596- S I

Size	Order Code																	
2 1/2".....	250																	
3".....	300																	
4".....	400																	
5".....	500																	
6".....	600																	
End Connections																		
125# Flange	F																	
Valve Trim																		
Bronze.....	B																	
Action																		
Fail Open (Air-to-Close)	X																	
Fail Closed (Air-to-Open).....	C																	
Packing																		
Teflon	T																	

**ACCESSORIES
SELECT CODE**
(see below)

**ACTUATOR
SELECT CODE**
(see below)

ACTUATOR SELECT CODE

CODE	PNEUMATIC DIAPHRAGM ACTUATORS
46	46 in ² , 1" Max Valve Stroke with Stainless Steel Springs, adjustable start w/ 7 ~ 12 lb. Fixed span.
4X	46 in ² , 1" Max Valve Stroke with Extended Springs (requires positioner), adjustable start w/22 lb. span.
1U	100 in ² ; 8-13 psi Spring Range, (Normally Closed Valves)
1L	100 in ² ; 3-8 psi Spring Range, (Normally Open Valves)

ACCESSORIES SELECT CODE

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

POWERS

A WATTS INDUSTRIES CO.

For more information on these or any POWERS' product, visit us at www.powerscontrols.com or contact us at 1-800-669-5430.