

FLOWRITE II®

Heavy Duty 596 Series Iron Type MI 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
- **Packing:**
Spring loaded TFE packing
- **Seat :**
ANSI Class III; <0.1 %
- **Cv Range:**
2-1/2"74
3101
4170
5290
6390
- **Rangeability:**
100:1
- **Characteristics:**
Linear/Mixing
- **Maximum Pressure:**
200 psi @ Temp. <150°F
- **Max. Differential Pressure:**
50 psi
- **Temperature Range:**
40° - 281° F

Powers Flowrite II Water Mix (MI) Valves combine hot and cold water proportionally to satisfy the demands of the controlling instrument. The valve's linear inherent characteristic produces equal changes in flow per unit of valve stroke regardless of plug position. The valve is air operated and can be used in a variety of mixing applications.

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- M 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																				
Mixing.....	M																			
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.
1M	100 in ² , 5-10 psi Spring Range (Mixing 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.