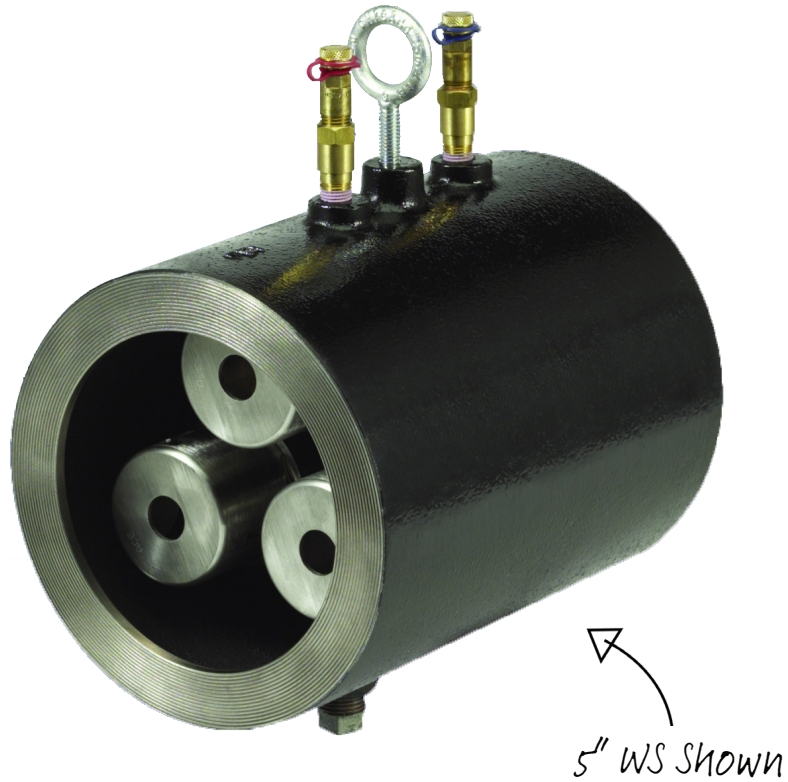


# WS



## **Automatic Balancing Valves** 2 1/2" - 14" Automatic Flow Control

# WS

Model WS is a wafer-style AutoFlow regulator factory set to automatically limit the specified flow to within  $\pm 5$  percent over 95 percent of the control range. The number of flow cartridges required is determined by the gpm requested. The valve body is compatible with ANSI Class 150 flanges. Extended Pressure / Temperature Ports and drain plug are standard. Options limited to quantity of three (2 at 12:00 and 1 at 6:00) and are shipped loose for field installation. Companion flanges and gaskets are not included.



*5" WS shown  
with 3 Cartridges*

## Key features

- > **Flow Regulator**  
Reduced wasted pumping
- > **Changeable Cartridges**
- > **Tamper Resistant**

## Technical description

**Application:**  
Hydronic Balancing

**Dimensions:**  
2 1/2" - 14"

**Accuracy:**  
 $\pm 5\%$

**Functions:**  
Flow Regulator

**Pressure class:**  
600 psig at 250° F (40 bar at 120° C)

**Material:**  
Body: Fabricated steel  
Flow cartridge: Stainless steel wear surfaces with stainless steel spring

## Flow

Model	Maximum Flow gpm (lps)*									
	Control Range psi (kpa)									
	2-32 (1)		5-60 (2)		3-20 (3)		5-40 (4)		7-45 (5)	
	(14-220)		(35-414)		(21-138)		(34-276)		(48-310)	
WS0250(-)	80	(5)	120	(8)	-		-		-	
WS0300(-)	135	(9)	170	(11)	200	(13)	250	(8)	300	(19)
WS0400(-)	270	(17)	340	(21)	400	(25)	500	(11)	600	(38)
WS0500(-)	405	(26)	510	(32)	600	(38)	750	(21)	900	(57)
WS0600(-)	540	(34)	680	(43)	800	(50)	1000	(32)	1200	(76)
WS0800(-)	945	(60)	1190	(75)	1400	(88)	1750	(43)	2100	(132)
WS1000(-)	1485	(94)	1870	(1180)	2200	(139)	2750	(75)	3300	(208)
WS1200(-)	2025	(128)	2550	(161)	3000	(189)	3750	(118)	4500	(284)
WS1400(-)	2565	(162)	3230	(203)	3800	(239)	4750	(161)	5700	(359)

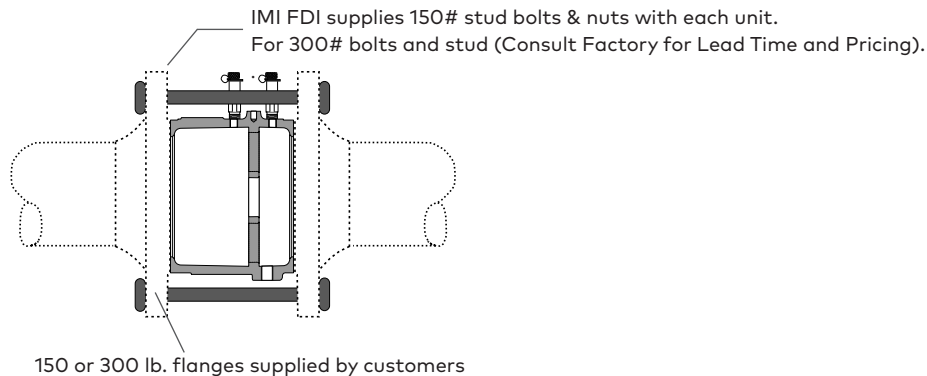
### Notes

The (-) in the model number must be replaced by: 1: 2-32 (14-220); 2: 5-60 (35-414); 3: 3-20 (21-138); 4: 5-40 (35-276) or 5: 7-45 (48-310).

For pump head calculations, the following loss applies for each range: 4.6 ft. or 13.7 kPa (2-32); 11.6 ft. or 34.6 kPa (5-60); 6.9 ft. or 17.9 kPa (3-20); 11.6 ft. or 34.6 kPa (5-40) & 16.2 ft. or 48.4 kPa (7-45).

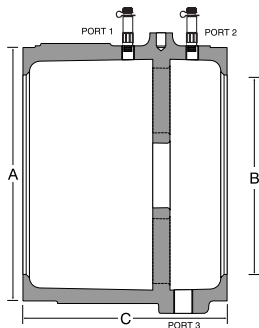
\*gpm increments are 5 gpm for 2-32 & 5-60, 10 gpm for 3-20 & 5-40, 20 gpm for 7-45.

All weights and dimensions are subject to minor changes.



## Articles

### Dimensions

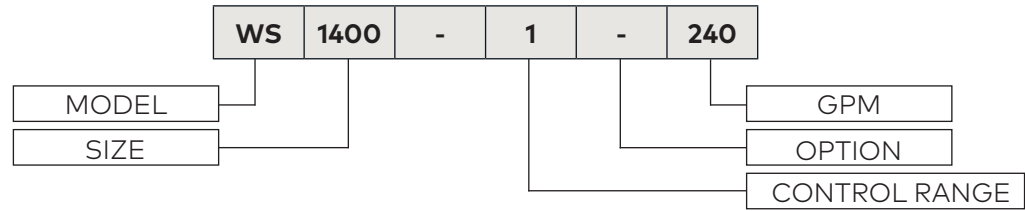


Model	Size		A		B		C		Max No. 3" Canisters	Weights	
	in.	(mm.)	in.	(mm.)	in.	(mm.)	in.	(mm.)		lb.	kg.
WS0250(-)	2.5	(65)	4.3	(109)	3.0	(76)	5.8	(147)	*1	13	(6)
WS0300(-)	3.0	(80)	5.0	(127)	3.4	(86)	8.8	(223)	1	20	(9)
WS0400(-)	4.0	(100)	6.8	(173)	4.6	(117)	9.6	(244)	2	39	(18)
WS0500(-)	5.0	(125)	7.6	(193)	5.7	(145)	10.0	(254)	3	28	(22)
WS0600(-)	6.0	(150)	8.5	(219)	6.5	(165)	10.2	(258)	4	60	(27)
WS0800(-)	8.0	(200)	10.8	(274)	8.7	(221)	11.0	(279)	7	88	(40)
WS1000(-)	10.0	(250)	13.3	(338)	10.8	(274)	11.0	(279)	11	129	(59)
WS1200(-)	12.0	(300)	15.9	(404)	12.5	(318)	11.0	(279)	15	180	(82)
WS1400(-)	14.0	(350)	17.6	(447)	14.0	(356)	11.0	(279)	19	221	(100)

### Note:

\*WS-250 uses a 2 1/2" cartridge

## Model Order Designation



## Options Available

- MI** Metal ID Tag
- PI** Plastic ID Tag



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