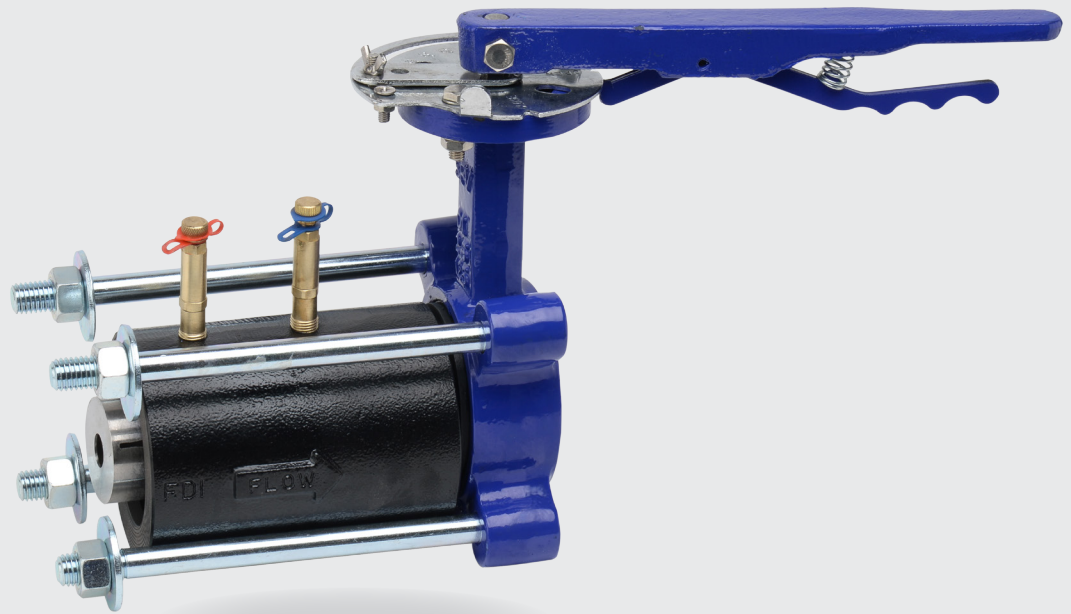



WB

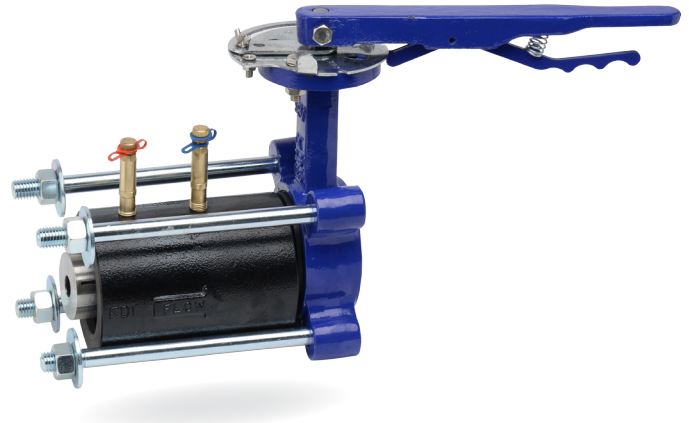


**Automatic Balancing Valves**  
Flow Regulator with butterfly valve

  
*Engineering  
GREAT Solutions*

# WB

Regulator—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 regulator body is compatible ANSI Class 150 or \*300 lb. flanges. Extended Pressure / Temperature ports, lifting lug, drain plug, flange rods and nuts 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/gaskets not included. Butterfly Valve—The lug-type butterfly valve has a 2" (50 mm) extended neck for insulation. Units have an infinite-position handle, 2 1/2" - 6" (65 - 200 mm). Pressure Drop—The pressure drop of the WB assembly is 2 psi or 4.6 ft. (460 Pa/m) [2-32 range] plus the loss through the butterfly valve which can be calculated using the Cv (Kv) rates on the BF Submittal (Form F215). The loss for other control ranges are shown in the notes under the chart below.



## Key features

- > **Flow Regulator**
- > **Shut-Off**  
For easy balancing

## Technical description

**Application:**  
Hydronic Balancing

**Functions:**  
Flow regulator, shut-off

**Pressure range:**  
2-32, 5-60, 3-20, 5-40, 7-45

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

**Rating:**  
225 psig at 250° F (15 Bar at 120°C)

**Flow Regulator Material:**  
Body: Ductile iron  
Flow Cartridge: Stainless Steel Wear Surfaces with Stainless Steel Spring

**Butterfly Valve Material:**  
Body: Cast Iron, Lug-type  
Seat & Gasket: EPDM  
Stem: 416 Stainless Steel  
Bearings: Bronze Sleeve  
Disc: Al-Bronze or Stainless Steel (if SS is required please consult factory)

## Flow

Model	Maximum 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)		(35-276)		(48-310)	
WB0250(-)	80	5.0	120	8.0	--	--	--	--	--	--
WB0300(-)	135	8.5	170	11.0	200	12.5	250	16.0	300	19.0
WB0400(-)	270	17.0	340	21.5	400	25.0	500	31.5	600	37.0
WB0500(-)	405	25.5	510	32.0	600	38.0	750	47.0	900	57.0
WB0600(-)	540	34.0	680	43.0	800	50.5	1000	63.0	1200	76.0
WB0800(-)	945	60.0	1190	75.0	1400	88.5	1750	110.0	2100	132.5

### 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).

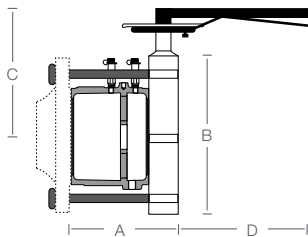
For pump head calculations, the following loss applies for each range: 4.6 ft. or 13.7 kPa (2-32); 11.6 ft. or 34.6 kPa (5-60); 6.9 ft. or 17.9 kPa (3-20); 11.6 ft. or 34.6 kPa (5-40); & 16.2 ft. or 48.4 kPa (7-45).--

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

All weights and dimensions are subject to minor changes. Flange bolts & nuts not included in estimated weight.

Allow approximately one foot for clearance on butterfly valve/handle.

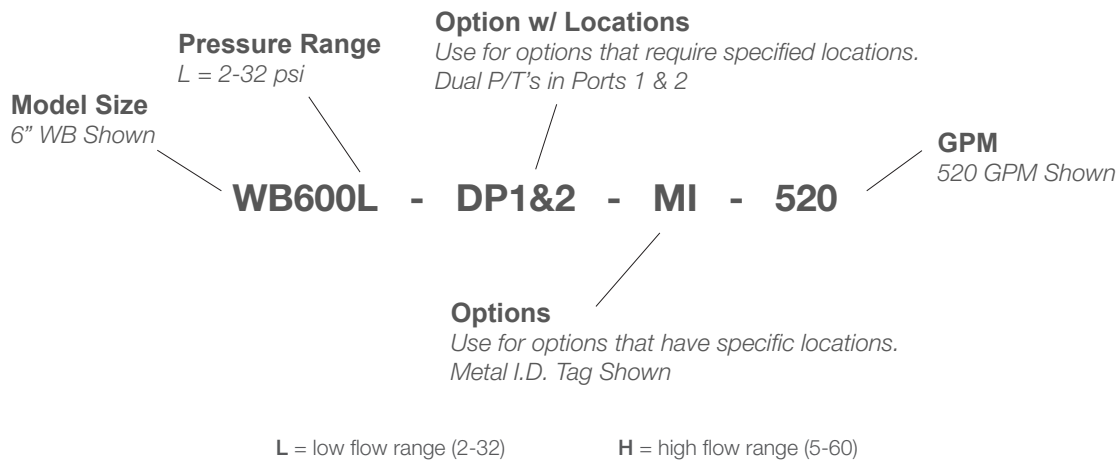
## Articles



### Dimensions

Model	Size	A		B		C		D		Weight		Max. No. of Cartridges	
		in	mm	in	mm	in	mm	in	mm	lb	kg		
WB0250(-)	2 1/2	65	7.5	190	7.0	180	7.2	185	9.0	230	23	13.5	1
WB0300(-)	3	80	10.6	255	7.5	190	7.6	195	9.0	230	34	18.0	1
WB0400(-)	4	100	11.7	295	9.0	230	8.4	215	9.0	230	53	29.9	2
WB0500(-)	5	125	12.3	315	10.0	255	8.9	225	9.0	230	86	39.2	3
WB0600(-)	6	150	12.4	315	11.0	280	9.6	245	9.0	230	103	46.7	4
WB0800(-)	8	200	13.4	340	13.5	345	10.8	275	5.0	130	151	68.6	7

## Model Order Designation



## Options Available

- |                              |                                   |
|------------------------------|-----------------------------------|
| <b>AA</b> Automatic Air Vent | <b>DX</b> Extended Dual P/T Ports |
| <b>AV</b> Manual Air Vent    | <b>MI</b> Metal ID Tag            |
| <b>DP</b> Dual P/T Ports     | <b>PI</b> Plastic ID Tag          |

