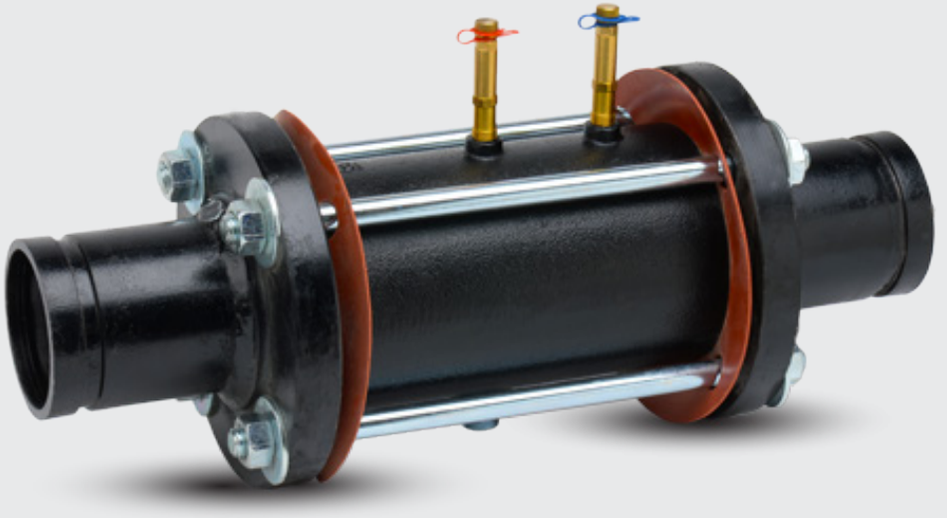
IMI FLOW DESIGN

WG



Automatic Balancing Valves

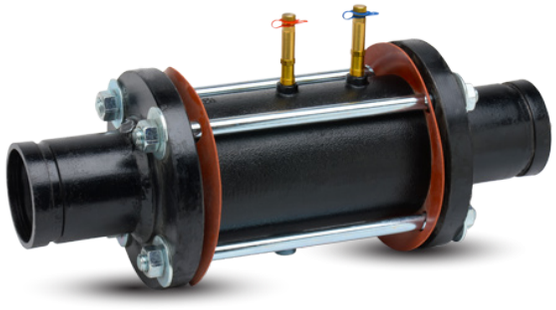
Flow Control Valve with grooved ends

Engineering GREAT Solutions

IMI Hydronic Engineering

WG

Model WG is a grooved wafer-style AutoFlow assembly factory set to automatically limit the specified flow to within ±5 percent accuracy. Extended pressure / temperature ports and a 1/2” FPT with a drain plug on the bottom are standard. The assembly has two grooved adapter flanges that require two standard grooved couplings (not supplied) for field installation. The flanges and flange bolts are shipped assembled.



Key features

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

Technical description

Application:
Hydronic Balancing

Functions:
Flow Regulator

Dimensions:
2 1/2” - 14”

Pressure class:
225 psig at 250° F

Accuracy:
±5 %

Material:
Body: Ductile Iron (2.5” - 14” models)
Flow Cartridge: Stainless Steel Wear Surfaces with Stainless Steel Spring
Flanges: Class 150 ANSI

Flow

	Maximum Flow gpm (lps)* Control Range psi (kpa)						
	2-32 **(1)**		5-60 **(2)**		3-20 **(3)**	5-40 **(4)**	7-45 **(5)**
Model	(14-221)		(34-414)		(21-138)	(34-276)	(48-310)
WG0250(-)	80	(5)	120	(8)	--	--	--
WG0300(-)	135	(9)	170	(11)	200	250	300
WG0400(-)	270	(17)	340	(22)	400	500	600
WG0500(-)	405	(26)	510	(32)	600	750	900
WG0600(-)	540	(34)	680	(43)	800	1000	1200
WG0800(-)	945	(60)	1190	(76)	1400	1750	2100
WG1000(-)	1485	(94)	1870	(118)	2200	2750	3300
WG1200(-)	2025	(128)	2550	(161)	3000	3750	4500
WG1400(-)	2565	(162)	3230	(203)	3800	4750	5700

Notes

The (-) in the model number must be replaced by: **3** (3-20), **4** (5-40) or **5** (7-45); for the WG0250 use **1** (2-32) and **2** (5-60) ranges instead of (3-20) & 5-40).

For pump head calculations, the following loss applies for each range: 4.6 ft. (2-32); 11.06 ft. (5-60); 6.9 ft. (3-20); 11.6 ft. (5-40); & 16.2 ft. (7-45).

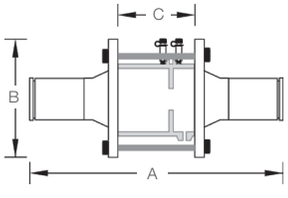
The flows can be reduced in 10 GPM increments; 5 GPM for 2 1/2".

All weights and dimensions given are in pounds and inches and are subject to minor changes.

* Denotes female thread not available on union end.

See operation manual for Installation and Maintenance F033.

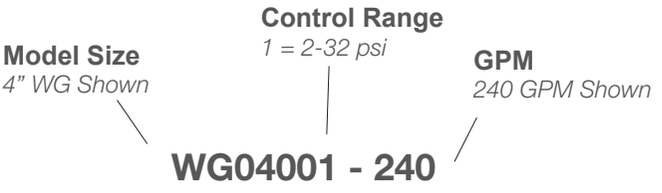
Articles



Dimensions

	Size		A		B		C		Max No.	Weight	
Model	in./(mm)		in./(mm)		in./(mm)		in./(mm)			lb./(kg)	
WG0250(-)	2.5	(65)	16.5	(419)	7.0	(178)	6.0	(152)	1	33	(15)
WG0300(-)	3.0	(76)	19.5	(495)	7.5	(191)	9.0	(229)	1	42	(19)
WG0400(-)	4.0	(102)	20.5	(521)	9.0	(229)	9.6	(244)	2	71	(32)
WG0500(-)	5.0	(127)	21.2	(540)	10.0	(254)	10.0	(254)	3	97	(44)
WG0600(-)	6.0	(152)	21.7	(552)	11.0	(279)	10.2	(258)	4	110	(50)
WG0800(-)	8.0	(203)	22.7	(565)	13.5	(343)	11.0	(279)	7	166	(75)
WG1000(-)	10.0	(254)	22.7	(565)	16.0	(406)	11.0	(279)	11	268	(122)
WG1200(-)	12.0	(305)	22.7	(565)	19.0	(483)	11.0	(279)	15	336	(152)
WG1400(-)	14.0	(356)	22.7	(565)	21.0	(533)	11.0	(279)	19	482	(219)

Model Order Designation



Options Available

MI Metal ID Tag

PI Plastic ID Tag

The products, texts, photographs, graphics and diagrams in this document may be subject to alteration by IMI Hydronic Engineering without prior notice or reasons being given. For the most up to date information about our products and specifications, please visit www.flowdesign.com.