

Engineering  
**GREAT** Solutions



**Think Quality. Think IMI Flow Design.**

## Why IMI Flow Design

At IMI Flow Design, we know balanced hydronic systems are critical to HVAC solutions that ensure both energy efficiency and consistent indoor comfort. We have built our company on that belief, advancing a comprehensive portfolio of manual, automatic and pressure independent balancing and control valves and associated products, all known for outstanding quality and superior performance benefits.

But we deliver so much more than products from our headquarters in Dallas, Texas. Engineers, contractors, building owners and operators alike count on IMI Flow Design for our vast experience, deep expertise and dedicated support.

- Over 40 years of leadership in the hydronic balancing industry since we began manufacturing flow limiting valves in 1978
- Pioneer in automatic balancing valve technology, setting the industry standard for precision manufacturing, flow accuracy, repeatability and system stability
- Introduced the first NSF 61-G certified automatic balancing valve in the industry for commercial hot water contact applications
- Extensive high profile projects, 100,000 plus, for medical centers and facilities, athletic stadiums, universities, financial institutions, hotels, federal and commercial buildings.
- Customized products and solutions to meet specific customer and project needs
- In-house manufacturing of our own hoses
- Backed by the global strength and resources of IMI Hydronic Engineering, our parent company
- Buy America Act compliant



Here's what our customers are saying about our products

*"It has been my pleasure over the years to use the quality products that IMI Flow Design offers. The IMI Flow Design coil kits are second to none, making our job in the field much easier. With their many different connection options, they are easy to apply to specific applications based on each job. Both my control and test and balance subcontractors also appreciate the quality of these kits."*

Benjamin Impello  
Superintendent  
Adkins & Kimbrough Mechanical, LLC

*"Performance Mechanical Inc. has been using IMI Flow Design products for years with many successful projects and, honestly, no major problems. The mechanics in the field like Flow Design's coil kits because of their reliability and performance, with no call backs. We will continue to use them for the foreseeable future due to the success we have."*

Dave Morehouse - Superintendent  
Performance Mechanical Inc.

## The Benefits of Efficient, Effective HVAC Solutions

IMI Flow Design balancing valves, hook-up components, hose kits and standard kits deliver specific, real-world benefits to support engineers, contractors, building owners and operators for more efficient and effective HVAC system operation and performance.

### Benefits For Engineers

- Comprehensive portfolio of manual control valves and automatic and pressure independent balancing
- Minimal startup pressures resulting in equipment downsizing and energy savings during operation
- Easier valve selection eliminating complex hydronic calculations
- Greater adaptability and flexibility for system design changes
- Dedicated, hands-on support from consulting on project plans to lunch-and-learn seminars
- Trust in the hydronic engineering expertise of an established leader in hydronic balancing

### Benefits For Contractors

- Constant indoor climate comfort and quiet operation for fewer customer complaints
- Hook-up packages, hose kits and standard kits for faster installation
- Reduction in leak potential, space requirements and installation time with specialized hook-up packages
- Error-free installation with factory bag-and-tag packaging
- Optimized profitability associated with reduced installation and commissioning time
- Extensive flexibility for system changes and future expansions
- Easy selection and ongoing support from dedicated sales managers and national network of seasoned rep partners
- 5-year warranty on all steel and brass components and 3-year warranty on all hoses, manufactured in-house and considered the industry's best
- Confidence in the 40 plus year track of successful projects from a hydronic balancing leader

### Benefits For Building Owners and Facility Managers

- Overall energy efficiency reducing energy consumption and costs
- Constant room temperatures without fluctuations for greater customer comfort
- Quiet system performance minimizing noisy operations and customer complaints
- Flexibility for system changes during design and system updates even after years of installation reducing expense
- 5-year warranty on all steel and brass components and 3-year warranty on all hoses, manufactured in-house and considered the industry's best
- Peace of mind with products from the recognized leader in hydronic balancing

**Talk to us today about your next project, and we will show you how IMI Flow Design can help deliver the optimal hydronic balancing system solution.**

**For more information call  
1-800-ASK FLOW (1-800-275-3569)**

#### About IMI Flow Design:

IMI Flow Design is the North American market leader in Automatic and Manual Flow Control Devices. IMI Flow Design offers its standard balancing products with various customizations in terms of end connections and cartridge pressure ranges, and also offers standard and custom coil/piping hook-up packages for space, material, labor savings and faster connections at job site. IMI Flow Design products in North America are sold via our valued manufacturer's rep network. IMI Flow Design is a brand of IMI Hydronic Engineering.

# Product Map



## Pressure Independent

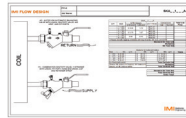


**HARMONY VALVE**  
Size 1/2" - 6",  
Max. 240 psi, @ 250°F  
Steel venturi, flow measurement, shut-off  
and reducing inlet flange

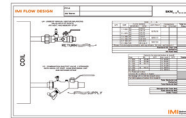
Control

## IMI Flow Design Standard Kits

Pre-configured Automatic and Manual Coil Hook-up Kits



2-Way Automatic Hook-up



2-Way Manual Hook-up



Ordering Instructions

Ordering  
Tools

## Automatic Balancing Valves



**AC VALVE**  
Size 1/2" - 2",  
Max. 400 psi, @ 250°F  
Flow regulator, union and shut-off



**ACR VALVE**  
Size 1/2", 3/4", 1", 1-1/2",  
Max. 400 psi, @ 250°F  
Compact, flow regulator and  
shut-off



**YR VALVE**  
Size 1/2" - 2",  
Max. 400 psi, @ 250°F  
Flow regulator



**WB VALVE**  
Size 1/2" - 8",  
Max. 225 psi, @ 250°F  
Flow regulator and shut-off



**WS VALVE**  
Size 2-1/2" - 30",  
Max. 600 psi, @ 250°F  
Water style regulator  
(2-1/2" shown)



**WG VALVE**  
Size 2-1/2" - 14",  
Max. 225 psi, @ 250°F  
Grooved flow regulator



**WR VALVE**  
Size 3" - 5",  
Max. 225 psi, @ 250°F  
Flow regulator, shut-off and  
flanged reducer



**WT VALVE**  
Size 2-1/2" - 3",  
Max. 200 psi, @ 250°F  
Flow regulator, shut-off and dielectric nipple  
(Designed to attach directly to brass-body  
threaded ATC)

## Balancing Valve for Potable Water



**ICSS**  
Size 1/2" - 3/4", Max. 400 psi,  
180°F, Flow range 0.3-12 gpm  
Inline Flow Controller, NSF/ANSI  
61 G certified for commercial hot  
applications (potable water)

Balancing Valves

## Manual Balancing Valves



**UA VALVE**  
Size 1/2" - 2",  
Max. 600 psi, @ 250°F  
Balancing, union, shut-off and  
optional port



**AF VALVE**  
Size 4" - 16",  
Max. 340 psi, @ 250°F  
Flanged steel venturi, flow  
measurement and shut-off



**AG VALVE**  
Size 4" - 16",  
Max. 340 psi, @ 250°F  
Grooved venturi, flow measurement  
and shut-off



**ET VALVE**  
Size 2-1/2" - 4",  
Max. 240 psi, @ 250°F  
Steel venturi, flow measurement,  
shut-off, dielectric nipple and  
extended inlet (five pipe diameter)



**VF VALVE**  
Size 2" - 16",  
Max. 240 psi, @ 250°F  
Flanged steel venturi and flow  
measurement



**VG VALVE**  
Size 2" - 16",  
Max. 400 psi, @ 250°F  
Grooved steel venturi and  
flow measurement

## Lead-Free Balancing Valve



**UA ZERO VALVE**  
Size 1/2" - 2",  
Max. 600 psi, @ 250°F  
Balancing, measuring and  
isolation

## Brass / Steel Hook-up Valves



**UB VALVE**  
Size 1/2" - 2",  
Max. 600 psi, @ 250°F  
Shut-off, optional unions  
and multiple accessory ports  
(Shown with optional accessories)



**UBM VALVE**  
Size 1/2" - 3/4",  
Max. 600 psi, @ 250°F  
Compact shut-off



**UP VALVE**  
Size 1/2" - 2-1/2",  
Max. 400 psi, @ 250°F  
Union and port sections  
(Shown with optional pressure/  
temperature port)



**YC VALVE**  
Size 1/2" - 2",  
Max. 400 psi, @ 250°F  
Union, y-strainer, shut-off,  
and multiple ports  
(Shown with optional accessories)



**YCR VALVE**  
Size 1/2", 3/4", 1", 1-1/2",  
Max. 400 psi, @ 250°F  
Union, y-strainer, shut-off,  
and multiple ports  
(Shown with optional accessories)



**YW VALVE**  
Size 1/2" - 2-1/2",  
Max. 400 psi, @ 250°F  
Y-strainer with port sections  
(Shown with optional accessories)



**FA VALVE**  
Size 2" - 8",  
150# ANSI  
Accessory flange, multiple  
port sizes (1/4", 1/2" & 3/4")



**FG VALVE**  
Size 2" - 8",  
150# ANSI  
Grooved accessory flange,  
multiple port sizes (1/4",  
1/2" & 3/4")



**CW VALVE**  
Size 2-1/2" - 8",  
Max. 125 psi, @ 250°F  
Strainer



**CY VALVE**  
Size 2-1/2" - 8",  
Strainer, drain valve and shut-off  
CW - Max. 125 psi, @ 250°F  
BF - Max. 240 psi, @ 250°F

## Hose Kits



**KIT A**  
Size 1/2" - 2",  
Flow regulator, Shut-off, optional  
union, hoses and multiple  
accessory ports  
(Shown with optional accessories)



**KIT AC**  
Size 1/2" - 2",  
Flow regulator, Union, Shut-off,  
hoses and multiple accessory  
ports  
(Shown with optional accessories)



**KIT B**  
Size 1/2" - 2",  
Venturi, Shut-off, union, hoses and  
multiple accessory ports  
(Shown with optional accessories)



**KIT C**  
Size 1/2" - 2",  
Shut-off, union, hoses and multiple  
accessory ports  
(Shown with optional accessories)

Hook-up Components

