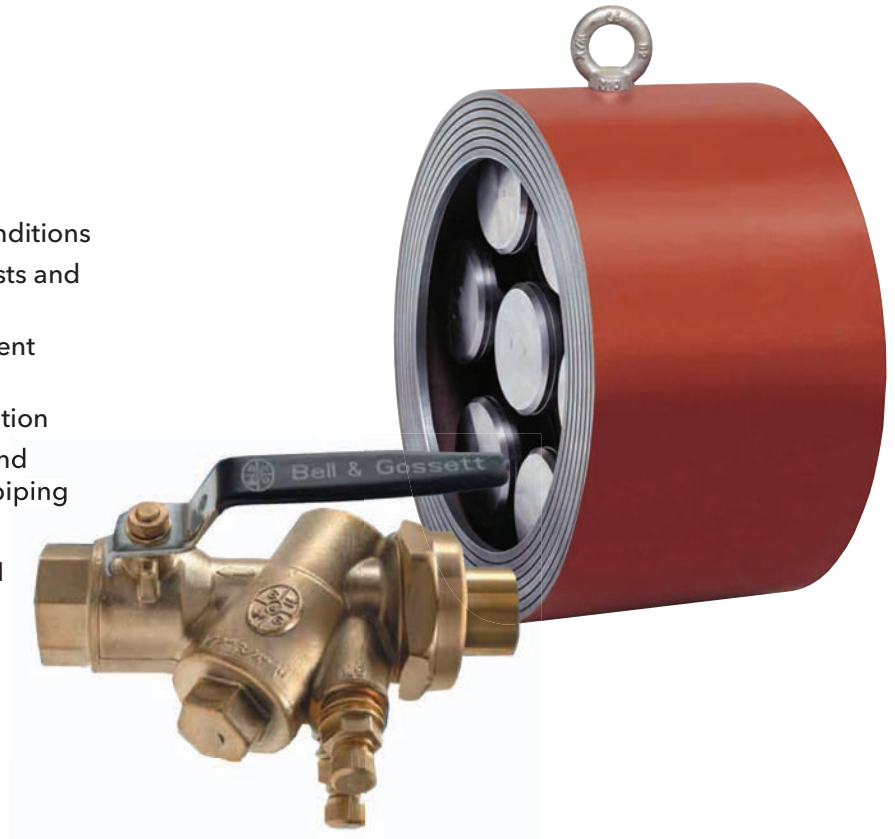


Get peak operating performance  
from HVAC systems automatically

- Keeps constant fluid flow, automatically compensating for fluctuating pressure conditions
- Eliminates overflows, reducing energy costs and improving occupant comfort
- Unique diaphragm pressure control element allows one cartridge for most systems
- Large open flow paths for clog-free operation
- No requirement on pipe lengths before and after the valve for easier application and piping
- Broad product size range ( 1/2" to 20" )
- Flow range from 0.33 GPM to 7, 200 GPM



# Circuit Sentry™

Pressure Independent Flow Limiting Valves

# Circuit Sentry™ Pressure Independent Flow Limiting Valves



How do you prevent unwanted overflows in today's modern variable flow HVAC systems? With the Bell & Gossett Circuit Sentry you no longer have to worry about it. The Circuit Sentry is a pressure independent flow limiting valve designed to limit the maximum flow through your system regardless of the fluctuations in system pressure normally associated with variable speed pumping.

The key to the Circuit Sentry design is the integral combination pressure regulating and flow limiting cartridge. Once the valve is set with its maximum allowable flow the cartridge's unique design maintains the flow as system pressures fluctuate. The cartridge's rolling rubber diaphragm prevents unwanted leakage through hidden crevices, ensuring stable, accurate flow and guaranteeing quiet operation while the open flow paths prevent the valve from clogging.

## Size Range

1/2" - 2 1/2" - Brass valve w/ integrated ball isolation/shut-off valve

2 1/2" - 20" - Multi-cartridge cast iron Wafer Valve

## Flow Range

0.33 GPM to 7,200 GPM

## Materials of Construction

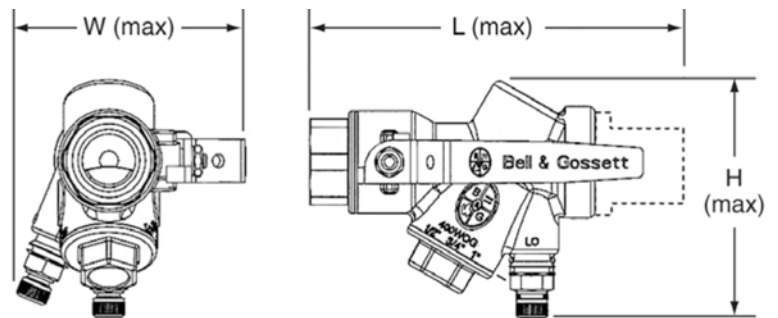
Valve Housing ..... Dezincification Resistant Brass  
 Sizes ..... 1/2" - 2 1/2"  
 O-rings ..... EPDM

## Operating Data

Pressure Class Media ..... 400 psi @ 250°F  
 Temperature Differential .. -4° to +250°F  
 Differential Pressure Range  
 Minimum ..... See Submittal A-606.22  
 Maximum ..... 60 PSID

Glycol mixtures (both ethylene and propylene) in all solutions are applicable. Strainer is recommended.

For additional information see submittals A-606.16, A-606-22, A-606.50 and A-622.



Valve Size Fixed End	Fixed End Options	Dimensions* INCH (mm)			Tail Piece Options	Approx. Weight lbs. (kg)
		W max	L max	H max		
1/2"	Sweat Female NPT Female	3.35 (85)	5.27 (134)	3.54 (90)	Sweat Female NPT Female NPT Male	2.4 (1.1)
3/4"			5.39 (137)			2.5 (1.1)
1"			6.18 (157)			2.6 (1.2)
1"L		4.52 (115)	8.45 (215)	4.84 (123)		7.1 (3.2)
1-1/4"			8.65 (220)			7.2 (3.3)
1-1/2"			8.77 (223)			7.1 (3.2)
2"R			11.8 (300)			9.8 (4.4)
1-1/2"L		4.0 (102)	17.04 (432)	6.92 (176)		16.8 (7.6)
2"			15.47 (392)			17.5 (7.9)
2-1/2"			18.23 (463)			19.5 (8.9)

\* Not to be used for construction purposes unless certified.



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