

# BRASS BETTY REGULATOR



## Versatile Design

- 6000 psi input, 225 psi max outlet pressure applications
- Stainless steel diaphragm for long-term accuracy
- Stainless nozzle for corrosion resistance and durability
- Spare seat built into the seat block for easy field repairs
- Standard adjusting screw and tee-style screw included with every regulator sold

## Triple Outlet

- Offers flexibility in outlet piping design
- Three 1/4" outlet ports & Two 1/4 plugs included

## General Benefits

- Capable of controlling various media, including air, gas, water, and other liquids
- Soft seat discs for ANSI Class VI shutoff
- Excellent for 1st cuts to various low flow applications
- Mesh filter on inlet port to prevent contamination and ensure reliable performance

## Application

The Brass Betty pressure regulator is engineered for industrial environments demanding precise pressure control. Its robust design and quality materials guarantee long, trouble-free operation in demanding conditions across a wide range of applications, including air, gas, water, and other liquids. Capable of handling inlet pressures up to 6000 psi gas & 1000 psi water, the Brass Betty is versatile and reliable for numerous high-pressure drop situations by reducing inlet pressures to working pressures between 0 and 225 psi. It excels in reducing high-pressure gas to optimal levels for downstream processes. Ideal for regulating valve supply control, maintaining pressure in instrumentation columns for gas measurement, and ensuring consistent operation in low-flow scenarios such as catalytic heaters and chemical injection pumps.

## Specifications

Connections (1 in / 3 out) ..... 1/4" FNPT

Inlet Pressure Rating ..... 6000 psi

Optimal Outlet Pressure Range:

BB-0 ..... 0-75 psi

BB-50 ..... 50-150 psi

BB-100 ..... 100-225 psi

*Note: All configurations can be reduced to 0 psi*

Operating Temperature ..... -70°F to 225°F

Body & Housing Materials ..... Forged Brass

Orifice ..... Stainless Steel



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## Capacities in SCFH 0.6 SG Natural Gas

Outlet Pressure Range (psi)	Outlet Setting (psi)	Inlet Pressure (psi)													
		100		250		500		750		1000		1500		2000	
		10% Droop	20% Droop	10% Droop	20% Droop	10% Droop	20% Droop	10% Droop	20% Droop	10% Droop	20% Droop	10% Droop	20% Droop	10% Droop	20% Droop
0 to 75	50	360	510	620	1030	930	1290	1080	1540	1160	1670	1220	1800	1290	1930
	75	320	510	770	1160	1160	1800	1290	2060	1420	2190	1540	2320	1670	2450
50 to 150	75	260	450	640	1030	1030	1670	1220	1930	1290	2060	1420	2190	1540	2320
	150	—	—	960	1290	1410	2320	1870	2960	2060	3350	2190	3610	2320	3870
100 to 225	150	—	—	840	1160	1290	2190	1740	2830	1930	2900	2120	3540	2320	3870
	225	—	—	640	1030	1800	2700	2450	3740	3090	4510	3480	5160	3870	5800

To determine the equivalent capacities for other gases, multiply the table capacities by the following appropriate conversion factors: .775 for Air, .631 for Propane, .548 for Butane, and .79 for Nitrogen.

## Capacities in Gallons Per Minute of Water based on 20% Droop

Outlet Pressure Range (psi)	Outlet Setting (psi)	Inlet Pressure (psi)				
		100	250	500	750	1000
0 to 75	50	.5	.83	1.12	1.32	1.43
	75	.46	.91	1.28	1.52	1.69
50 to 150	75	.43	.88	1.24	1.49	1.65
	150	—	1.01	1.64	2.02	2.31
100 to 225	150	—	.95	1.56	1.96	2.24
	225	—	.84	1.73	2.27	2.68

1000 psi maximum inlet pressure for water service

