

**For Residential Applications**

Job Name \_\_\_\_\_  
 Job Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Approval \_\_\_\_\_

Contractor \_\_\_\_\_  
 Approval \_\_\_\_\_  
 Contractor's P.O. No. \_\_\_\_\_  
 Representative \_\_\_\_\_

# Series N250

## Iron Body Water Pressure Reducing Valves\*

Sizes: 1/2" – 3/4" (15 – 20mm)

Series N250 Iron Body Water Pressure Reducing Valves are designed to reduce incoming water pressure to a sensible level to protect plumbing system components and reduce water consumption. This series is suitable for water supply pressures up to 250psi (17.2 bar) and may be adjusted from 25 – 75psi (172 – 517 kPa). The standard setting is 50psi (345 kPa). All parts are quickly and easily serviceable without removing the valve from the line. The optional bypass feature permits the flow of water back through the valve into the main when pressures, due to thermal expansion on the outlet side of the valve, exceed the pressure in the main supply.

### Features

- Integral strainer
- Unitized construction for ease of maintenance
- High temperature resisting diaphragm for hot or cold water
- All working parts easily and quickly serviceable without removing the valve from the line
- Optional bypass feature controls thermal expansion pressure\*\*

### Models

**N250** – NPT threaded female inlet x NPT female outlet

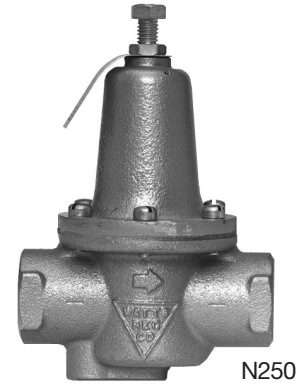
**N250B** – NPT threaded female inlet x NPT female outlet with thermal expansion bypass feature

**Note:** Cast iron body regulators are not intended for buried or pit services.

### Specifications

A Water Pressure Reducing Valve and strainer shall be installed on the water service pipe near its entrance to the building where supply main pressure exceeds 60psi (413 kPa) to reduce it to 50psi (345 kPa) or lower. Sill cocks and outside wall hydrants may be left on full main pressure at the option of the owner. Provision shall be made to permit the bypass flow of water back through the valve into the main when pressures, due to thermal expansion on the outlet side of the valve, exceed the pressure in the main supply. Pressure reducing valves with built-in bypass check valves and integral strainer will be acceptable. Valve shall be a Watts Regulator Company Series N250.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



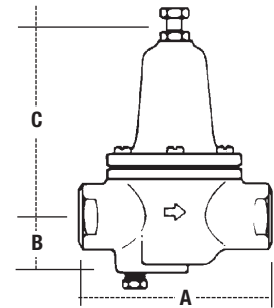
### Materials

- Body: Iron
- Seat: Stainless steel
- Integral Strainer: Stainless steel
- Stem: Brass
- Disc: Brass

### Pressure – Temperature

- Temperature Range: 33°F – 160°F (0.5°C – 71°C)
- Maximum Working Pressure: 250psi (17.2 bar)
- Adjustable Reduced Pressure Range: 25 – 75psi (172 – 517 kPa)
- Standard Reduced Pressure Setting: 50psi (345 kPa)

### Dimensions – Weights



SIZE (DN)		DIMENSIONS						WEIGHT	
in.	mm	A		B		C		lbs.	kgs.
		in.	mm	in.	mm	in.	mm		
1/2	15	4	102	1 5/8	41	3 7/8	98	2.5	1.1
3/4	20	4 5/16	110	1 3/8	35	5	127	3.5	1.6

\*A water saving test program concluded that reducing the supply pressure from 80 – 50psi (551 – 345 kPa) resulted in a water savings of 30%.

\*\*The bypass feature will not prevent the pressure relief valve from opening on the hot water supply system with pressure above 150psi (10.3 bar).



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**Water Safety & Flow Control Products**