For Commercial and Industrial Applications

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

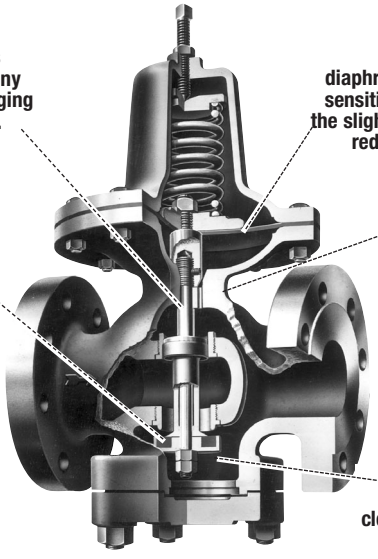
Series 2300

Direct Operated Water Pressure Reducing Valves

Sizes: 3" – 6" (80 – 150mm)

Series 2300 Direct Operated Water Pressure Reducing Valves are designed for dead-end water service where the flow is intermittent and changes rapidly, as on domestic water system. This Series is also installed to regulate the flow of water to such fast acting equipment as flushometers and snap cocks. The Series 2300 is recommended where city water pressure is to be reduced to supply plumbing fixtures to prevent violent pressure fluctuations.

Series 2300



Features

- An essentially balanced single seat minimizes variation in delivery pressure resulting from varying inlet pressure
- A large Hycar diaphragm ensures a sensitive response to the slightest changes in reduced pressure
- Packless design eliminates stuffing box friction
- Hycar composition single seat provides for dead-end shutoff and prevents pressure-creep when no flow is required
- Self-aligning design. Eliminates the need for a stem guide in the bottom flanges and removes a point of direct collection that can cause faulty operation
- Disc and piston are located to minimize the possibility of obstruction by dirt
- Large pressure plate gives ample support to the diaphragm – assuring long life
- Self-contained design, requires no control lines
- All internal parts accessible by removing blind flange or spring chamber. Regular maintenance can be performed with the valve body in line
- No stuffing box maintenance required

Applications

- Industrial plants for washrooms and processing operations
- Apartment buildings, hotels, office buildings and hospitals to provide each floor with a steady pressure.
- Municipal or plant water main to maintain constant pressure

Specifications

A Direct Operated Water Pressure Reducing Valve shall be installed where indicated on the plans. The Valve shall be manufactured out of cast iron and be pressure rated to 200psi (13.8 bar). The valve shall have a large Hycar diaphragm to ensure sensitive response. Valve shall be a Watts Regulator Company Series 2300.

WATTS®

Materials List

Body	Cast Iron
Disc	Hycar Composition
Trim	Stainless Steel
Diaphragm	Hycar
Spring	Tempered Steel

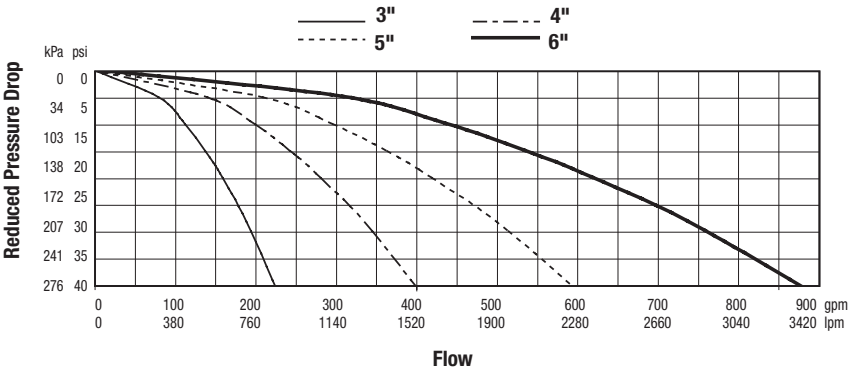
Pressure – Temperature

Maximum Temperature: 150°F (66°C)

Maximum Pressure: 200psi (13.8 bar)

Reduced Pressure Range: 30 – 80psi (207 – 552 kPa)

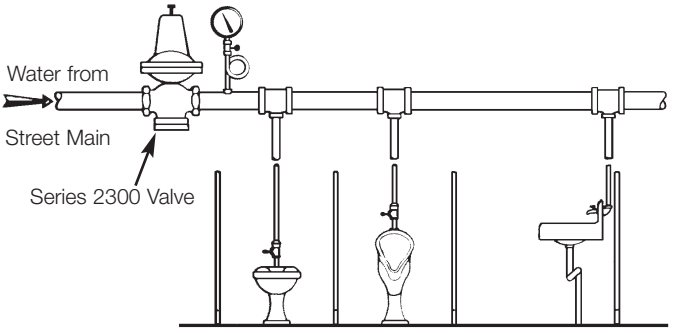
Capacity



Typical Applications

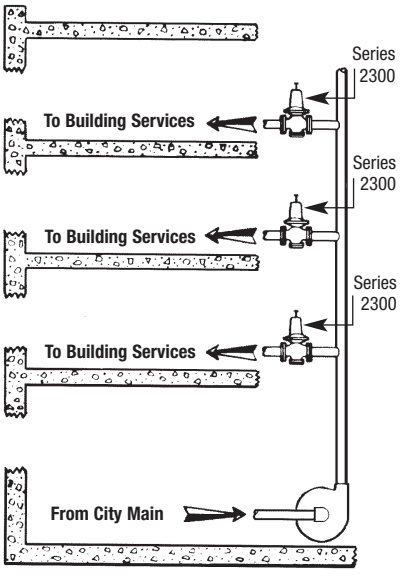
Washroom Water Supply

Series 2300 is a direct operated, balanced, tight seating pressure reducing valve, opened and closed by small variations in delivery pressure.



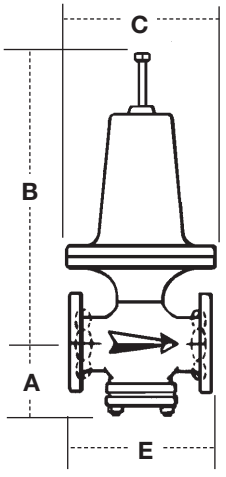
Domestic water pressure control for tall buildings

Series 2300 provides each floor of the building with water at a steady economical pressure. The delivery pressure acting on the spring loaded diaphragm throttles the balanced valve to control the pressure.



Dimensions — Weights

SIZE (DN)		DIMENSIONS								WEIGHTS	
		A		B		C		E			
in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kgs.*
3	80	6	153	21¾	552	9	229	10	254	108	49
4	100	6⅝	168	26⅝	676	11¼	286	11⅞	302	198	90
5	125	7⅝	194	33⅛	841	14¼	362	13⅝	346	352	160
6	150	9⅛	232	35⅞	911	16	406	15⅛	384	500	227



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Water Safety & Flow Control Products

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