Watts
Solar Heating Products

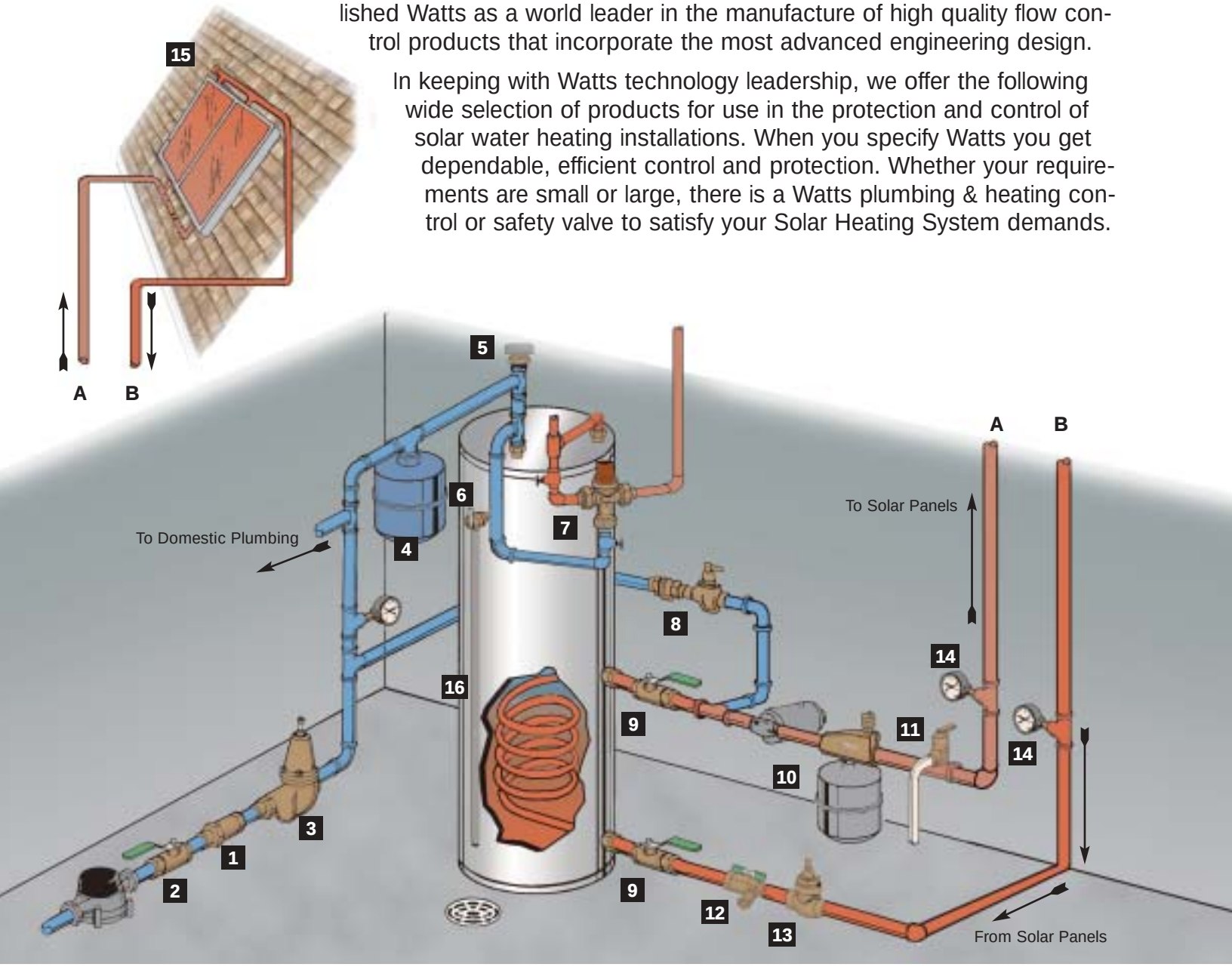
WATTS® REGULATOR www.wattsreg.com



Watts Solar Heating Products

Since 1874, Watts Regulator Company has provided leadership in the design and manufacture of plumbing & heating safety valves and controls. This “know-how” has established Watts as a world leader in the manufacture of high quality flow control products that incorporate the most advanced engineering design.

In keeping with Watts technology leadership, we offer the following wide selection of products for use in the protection and control of solar water heating installations. When you specify Watts you get dependable, efficient control and protection. Whether your requirements are small or large, there is a Watts plumbing & heating control or safety valve to satisfy your Solar Heating System demands.



1 Dual Check Valve Backflow Preventer - Series 7, 7B, L7

2 Bronze Ball & Waste Valve - Series B-6300

3 Water Pressure Reducing Valve
- Series U5, 25AUB, N35B

4 Potable Water Expansion Tank - Series DET-M1

5 Vacuum Relief Valve - Series N36

6 Self-closing Temperature and Pressure Relief Valves
- Series 1L, 1XL, 10L and 100XL
- ASME rated Series 40, 140, 240 and 340

7 Hot Water Extender Tempering Valves
- Series N170, 70A, 1170, L1170

8 Combination of Continuous Pressure Type Backflow Preventer and Feed Water Pressure Regulator
- Series B911S

9 Bronze Ball Valves - Series B-6080 (2)

10 Non-Potable Water Expansion Tank - Series ET

11 Pressure Relief Valve - Series 53L

12 Residential, Purge, Balancing and Drain Valve - Series RPV

13 Two-Way Flow Checks - Series 2000

14 Temperature and Pressure Gauges
- Series DPG1, DPTG3, TB

15 Air Vent - Series HAV, FV-4M1

16 Drain Tube - Series 100DT

Series U5

Water Pressure Reducing Valves

Series U5 Water Pressure Reducing Valves provide accurate water pressure control solutions for residential, commercial and industrial applications. The U5's basic design and construction is time tested and proven to offer durability and years of continuous trouble-free operation.

Features

- High temperature resistant diaphragm
- Bronze body construction
- Stainless steel integral strainer
- Renewable stainless steel seat
- Serviceable in-line

For additional information, request literature ES-5.



U5

Series DET-M1

Domestic Potable Water Thermal Expansion Tanks

Series DET-M1 Domestic Potable Water Thermal Expansion Tanks control thermal expansion of water in the domestic hot water supply. Series DET-M1 is a pre-pressurized steel tank that uses an expansion membrane to prevent air/water contact, providing longer system life.

Features

- Rugged butyl diaphragm
- In-line and free-standing models
- Made in the U.S.A.

For additional information, request literature ES-DET-M1.



DET-5

Series 1L, 1XL, 10L and 100XL

Self-Closing Temperature & Pressure Relief Valves

Series 1L, 1XL, 10L and 100XL Self-Closing Temperature & Pressure Relief Valves provide the least expensive and proven means for protection against both excessive temperature and pressure emergency conditions. These valves provide fully automatic temperature and pressure relief protection for domestic hot water supply tanks and heaters based on the latest ANSI Z21.22 requirements for temperature discharge capacity.

For additional information, request literature ES-10L/100XL or ES-L100XL/LL100XL.



100XL

Series N36

Vacuum Relief Valves

Series N36 Vacuum Relief Valves are designed for automatic venting of a closed system to atmosphere when a vacuum is created. The N36 permits air to enter and prevents vacuum conditions that could siphon the water from the system, resulting in collapse of a tank or water heater or equipment burn out.



N36

For additional information, request literature ES-N36.

Series 1170, L1170

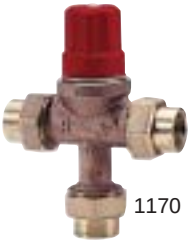
Hot Water Temperature Control Valves

Series 1170 Hot Water Temperature Control Valves are full flow valves designed to maintain and limit the hot water to a temperature chosen by the installer. These valves are ideal for use on domestic water systems at the hot water source. The 1170's superior flow characteristics and exacting temperature control make them ideal for solar applications as well.

Features

- ASSE Standard 1017 performance
- Bronze body size ½" (13mm), brass body ¾" & 1" (19 – 25mm)
- 1170 Temperature Out: Field range: 100°F – 180°F (38°C – 82°C), adjustable. Accurate within ±3°F (1.7°C)
- L1170 Temperature Out: Field range: 80°F – 120°F (27°C – 49°C), adjustable. Accurate within ±3°F (1.7°C)

For additional information, request literature ES-1170/L1170.



1170

Series B911S

Combination Backflow Preventer and Fill Valves

The Series B911S Combination Backflow Preventer and Fill Valves are designed to provide make-up water to the system, keeping the system filled in the event of a leak and prevent backflow when supply pressure falls below system pressure.

Features

- Combination pressure reducing valve and backflow preventer
- Pre-assembled for ease of installation
- Easy service accessibility
- High capacity fill valve for quick system filling and purging



B911S

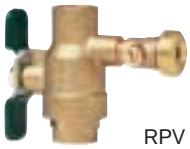
For additional information, request literature PG-HHS.

Series RPV

Purge, Balancing and Drain Valves

Series RPV Purge, Balancing and Drain Valves provide a unique and low cost solution for start-up purging, balancing and draining of hydronic heating loops. Using a rugged, dual-ball valve design, the small and compact Series RPV facilitates: 1) high-volume purging; 2) accurate balancing; 3) a tight shutoff and 4) hose connection for draining and purging.

Features



RPV

- One-piece Convenience — no extra assembly required
- Maximum Air Purging — purges 500 foot loop in approximately 10 seconds
- Positive Shutoff Dual-Ball Valve Design — tight seal on balance port maximizes purging

For additional information, request literature PG-HHS.

Series ET

Non-Potable Water Expansion Tanks

Series ET Non-Potable Water Expansion Tanks are designed to control the thermal expansion of hot water in closed loop heating systems

- Steel Construction
- Rugged Flexible Diaphram



ET

For additional information, request literature PG-HHS.

Series AS-B

Bronze Air Scoops

Series AS-B bronze air scoops provide superior separation and continuous removal of air from piping in solar heating systems.

- Comes standard with ½" Watts Model FV4-M1 float vent to provide complete, continuous purging and venting of air in the system.



AS-B

For additional information, request literature S-AS-B.

Series HAV, FV-4M1

Air Vents

Series HAV and FV-4M1 air vents are designed for automatic or manual air release on baseboards, convectors, radiators and high points in piping systems.



HAV



FV-4M1

For additional information, request literature ES-HAV or ES-FV-4M1.

Series DPG1, DPTG3, TB

Temperature and Pressure Gauges

Series DPG1, DPTG3 and TB Temperature and Pressure Gauges are available in 1½", 2", 3" and 4" (40-100mm) dial sizes, in a variety of pressure/temperature ranges.



TB DPTG3

DPG1

For additional information, request literature F-Gauges.

Series 2000

Two-Way Flow Checks

Series 2000 Two-Way Flow Checks are designed to provide positive gravity shutoff when circulator is not running. This Series is easily opened for gravity circulation.



2000

For additional information, request literature ES-2000.

Series 53L

Poppet Type Pressure Relief Valves

Series 53L Poppet Type Pressure Relief Valves are designed for protection against excessive pressures in domestic storage tanks or tankless water heaters.



53L

For additional information, request literature ES-530C.

Series 7

Dual Check Valves



7

Series 7 Dual Check Valves are designed for use at the drinking water supply service entrance or with individual outlets. These valves are for non-health hazard residential water system containment and continuous pressure applications. Series 7 features bronze body construction and should be installed immediately downstream of the residential water meter.

For additional information, request literature PG-7.

Series B-6080, B-6300

Two Piece Full Port Bronze Ball Valves



B-6300

Series B-6080/B-6300 Two Piece Full Port Bronze Ball Valves are suitable for a full range of liquids. These valves contain glass reinforced Durafill® seats for long life and reliable performance. Series B-6300 features a waste port for easy drain down of plumbing systems.

For additional information, request literature ES-B6080 or ES-B6300.

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