IS-223

Installation Instructions • Instrucciones de instalación • Instructions d'installation

Series LF223 and LFN223

High Capacity Water Pressure Regulator

Regulador de la presión de agua de gran capacidad

Régulateur de pression d'eau à capacité élevée

Size: ½" - 3"

Medidas: ½ a 3 pulg.

Tailles : 0.5 à 3 po

LFN223

WATTS®

USA: T: (978) 689-6066 • F: (978) 975-8350 • Watts.com
Canada: T: (888) 208-8927 • F: (905) 332-7068 • Watts.ca
Latin America: T: (52) 55-4122-0138 • Watts.com

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Limited Warranty: Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.
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The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.
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Garantía limitada: Watts Regulator Co. (en adelante, "la Compañía") garantiza, por un período de un año a partir de la fecha de embarque original, que sus productos están libres de defectos en materiales y mano de obra bajo condiciones de uso normal. En caso de que se encuentren tales defectos dentro del período de garantía, la Compañía reemplazará o reacondicionará, a su elección, el producto sin costo alguno.
LA GARANTÍA AQUÍ ESTIPULADA SE OTORGA EN FORMA EXPRESA Y ES LA ÚNICA GARANTÍA OTORGADA POR LA COMPAÑÍA EN RELACIÓN CON EL PRODUCTO. LA COMPAÑÍA NO OTORGA NINGUNA OTRA GARANTÍA, YA SEA EXPRESA O IMPLÍCITA. LA COMPAÑÍA POR LA PRESENTE RENUNCIA ESPECÍFICAMENTE A TODAS LAS DEMÁS GARANTÍAS, EXPRESAS O IMPLÍCITAS, INCLUYENDO SIN LIMITACIÓN, LAS GARANTÍAS IMPLÍCITAS DE APTITUD PARA LA COMERCIALIZACIÓN E IDONEIDAD PARA UN PROPÓSITO EN PARTICULAR.
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Garantie limitée : Watts Regulator Co. (la « Société ») garantit que chacun de ses produits est exempt de vice de matériau et de fabrication dans des conditions normales d'utilisation pour une période d'un an à compter de la date d'expédition d'origine. Dans l'éventualité où de tels vices se manifesteraient pendant la période de garantie, la Société, à sa discrétion, remplacera ou reconditionnera le produit sans frais.
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ENGLISH INSTRUCTIONS

⚠ WARNING

Read this Manual BEFORE using this equipment.
Failure to read and follow all safety and use information can result in death, serious personal injury, property damage, or damage to the equipment.
Keep this Manual for future reference.

⚠ WARNING

You are required to consult the local building and plumbing codes prior to installation. If the information in this manual is not consistent with local building or plumbing codes, the local codes should be followed. Inquire with governing authorities for additional local requirements.

Installation Instructions

- The valve should be installed by a licensed contractor in accordance with local codes and ordinances.
- This valve should be installed where it is accessible with sufficient clearance for cleaning, service or adjustment.
- Flush dirt and scale from supply pipe.
- Regulator may be installed vertically or horizontally (upright or inverted), but you must install it with the arrow in the direction of flow.
- Regulator is preset at 50psi (345 kPa). To adjust, loosen locknut and turn adjusting screw clockwise to increase pressure; counterclockwise to decrease.
- The LF223 has a built-in thermal expansion bypass. If using the LF223 model when the inlet pressure is higher than the discharge setting of the water heater T&P valve (typically 150psi, 10.3 bar), or when there is a check valve or backflow preventer installed on the line, you must make provisions for pressure relief protection to protect your plumbing system and its components. We suggest the use of a model DET expansion tank, the Watts Governor 80 ball cock and thermal expansion relief valve, or a 530C calibrated pressure relief valve. (Send for folder F-RV, S-Therm Expansion, or consult your plumbing professional).

NOTICE

- To tighten valve, first hand tighten followed by ¼-1 turn, using wrench.
- LFN45B valves are suitable for accessible outdoor or pit installations.

⚠ CAUTION

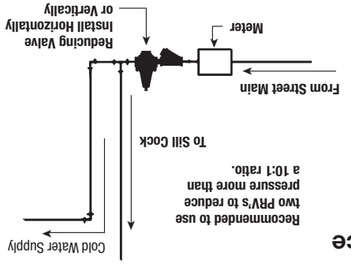
Any time a reducing valve is adjusted, the use of a pressure gauge is recommended to verify correct pressure setting. Do not bottom out adjusting screw on spring cage.

⚠ CAUTION

Use caution when servicing 2" and larger valves that require removal of the spring cage due to the weight.

Main Line Service

Install in tandem with smaller size regulator to improve system performance and extend valve life.



NOTICE

Watts recommends that the water line be tested annually for incoming pressure.

⚠ WARNING

Need for Periodic Inspection/Maintenance: This product must be tested periodically in compliance with local codes, but at least once per year or more as service conditions warrant. Corrosive water conditions, and/or unauthorized adjustments or repair could render the product ineffective for the service intended. Regular checking and cleaning of the product's internal components helps assure maximum life and proper product function.
Maintenance may be required when the water downstream of the product exhibits one or more of the following: excessive water pressure, insufficient water pressure or flow, or inconsistent water pressure.

Maintenance Instructions

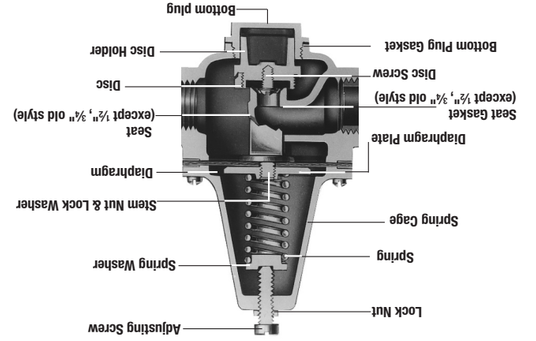
⚠ WARNING

Depressurize valve before servicing

- To clean or replace parts; shut off supply, loosen lock-nut and back off adjusting screw.
- Remove spring cage, spring, washer. Remove bottom plug.
- Disassemble module. Use wrench to loosen stem nut and remove lock washer and diaphragm plate. Remove yoke by loosening disc holder using a screw driver.
- When replacing disc holder, apply a drop of low strength thread lock. Do not over torque.

NOTICE

When furnished with a strainer, flush periodically.



⚠ WARNING

Conduct a thorough inspection of the valve for external leaks after the "final" installation of the regulator.

Repair Kits

Kit for No. LF223 includes parts shown

Ordering Code No.	Kit No.	Valve Series	Size
			In.
0125123	LFKIT-C-RK	LF223	½, ¾
0125124	LFKIT-D-RK		1
0125125	LFKIT-E-RK		1¼
0125369	1½ RK LF223N		1½
0125370	2 RK LF223N		2
0125371	2½ RK LF223N		2½
0009909	2½ LFRK-223	LFN223B	2½ 3 Bronze
0125372	2½ RK LFN223M2	LFN223BM1	2½ Bronze

NOTICE

When ordering, specify Ordering Code Number, Kit Number and Valve Size.