

# Series 7

## Dual Check Valves

### Válvulas de retención duales

### Double soupape

LF7/7, LF7R, LF07S/07S, LF7C/7C, 7B, LFL7/L7, & LFCu7/Cu7

1/2" - 2" (15 - 50mm)



LF7R



LIMITED WARRANTY: See [Watts.com](http://Watts.com)

**⚠ 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**

Local building or plumbing codes may require modifications to the information provided. You are required to consult the local building and plumbing codes prior to installation. If the information provided here is not consistent with local building or plumbing codes, the local codes should be followed. This product must be installed by a licensed contractor in accordance with local codes and ordinances.

**⚠ 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. All products must be retested once maintenance has been performed. 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 and external components helps assure maximum life and proper product function.

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**For more information:** [Watts.com/prop65](http://Watts.com/prop65)

GARANTÍA LIMITADA: Consulte [Watts.com](http://Watts.com)

**⚠ ADVERTENCIA**

Lea este manual ANTES de utilizar este equipo.

El no leer y seguir todas las medidas de seguridad y usar la información puede causar la muerte, lesiones personales graves, daños materiales o daños en el equipo.

Guardé este manual para referencia futura.

**⚠ ADVERTENCIA**

Los códigos locales de construcción o fontanería pueden requerir modificaciones en la información proporcionada. Es obligatorio consultar los códigos locales de construcción y fontanería antes de comenzar la instalación. Si la información de este manual no se corresponde con los códigos locales de construcción y fontanería, deberán seguirse estos últimos. Este producto debe ser instalado por un contratista con licencia, de acuerdo con los códigos y ordenanzas locales.

**⚠ ADVERTENCIA**

**Requerimiento de inspección periódica/mantenimiento:** Este producto debe ser evaluados periódicamente de acuerdo con los códigos locales, pero al menos una vez o más al año según las condiciones del servicio. Todos los productos deben volver a ser evaluados una vez se haya realizado el mantenimiento. Condiciones de agua corrosiva y/o ajustes o reparaciones no autorizados pueden provocar que el producto deje de funcionar para el servicio previsto. Verificar y limpiar periódicamente los componentes internos y externos del producto ayuda a garantizar su máxima vida útil y correcto funcionamiento.

**ADVERTENCIA:** Este producto contiene sustancias químicas que en el Estado de California se conocen como causantes de cáncer y malformaciones u otros daños reproductivos.

**Para más información:** [Watts.com/prop65](http://Watts.com/prop65)

GARANTIE LIMITÉE : voir [Watts.com](http://Watts.com)

**⚠ AVERTISSEMENT**

Lisez attentivement ce manuel avant d'utiliser cet équipement.

Négliger de lire et de suivre toutes les consignes de sécurité et d'utilisation de l'information peut entraîner la mort, des blessures graves ou des dégâts matériels, ou endommager l'équipement.

Veuillez conserver ce manuel pour toute référence ultérieure.

**⚠ AVERTISSEMENT**

Les codes locaux du bâtiment ou de la plomberie peuvent nécessiter des modifications aux renseignements donnés. Vous êtes tenus de consulter des codes locaux du bâtiment ou de la plomberie avant de commencer l'installation. Si les renseignements donnés ci-dessous ne sont pas cohérents avec les codes locaux du bâtiment ou de la plomberie, les codes locaux doivent être respectés. Ce produit doit être installé par un entrepreneur licencié conformément aux codes et règlements locaux.

**⚠ AVERTISSEMENT**

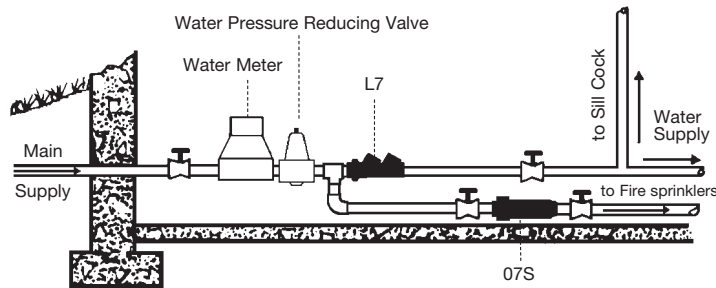
**Nécessité d'inspection périodique/maintenance :** Ce produit doit être testé périodiquement en conformité avec les codes locaux, mais au moins une fois par an ou plus, comme les conditions de service le justifient. Tous les produits doivent être testés une fois que les opérations d'entretien ont été effectuées. Des conditions d'admission corrosives et/ou des réglages ou des réparations non autorisés peuvent rendre le produit inefficace pour le service prévu. La vérification et le nettoyage réguliers des composants internes et externes du produit contribuent à assurer une durée de vie maximale et un fonctionnement correct du produit.

**AVERTISSEMENT :** Ce produit contient des produits chimiques reconnus par l'État de Californie comme étant cancérogènes et pouvant provoquer des anomalies congénitales ou affecter la capacité de reproduction.

**Pour plus d'informations:** [Watts.com/prop65](http://Watts.com/prop65)

**USA:** Tel: (978) 689-6066 • Fax: (978) 975-8350 • [Watts.com](http://Watts.com)  
**Canada:** Tel: (905) 332-4090 • Fax: (905) 332-7068 • [Watts.com](http://Watts.com)  
**Latin America:** Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • [Watts.com](http://Watts.com)

ENGLISH INSTRUCTIONS

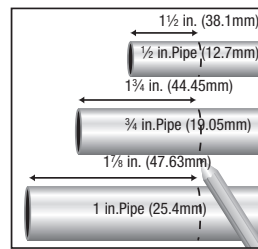


### Installation

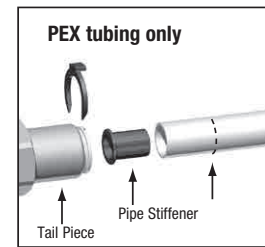
- Watts dual check valves may be installed in either a vertical or a horizontal position. Series 7 & LF7 should be installed downstream of the water meter and of the water pressure regulator. All outlets including sill cocks must be downstream of the Series 7. Model 07S & LF07S should be installed at the fire sprinkler service connection to the main line.
- They should always be installed in an accessible location to facilitate the removal for servicing and testing.
- Pipe lines should be thoroughly flushed to remove foreign material before installing the unit.
- Protect from freezing
- Ensure that valve is installed in proper flow direction. Refer to flow direction arrow on valve nameplate or body.
- When installing valve in pipe line, only use wrenching flats provided. Do not apply wrench to body of valve. This will prevent distorting the valve body and component parts.
- These valves incorporate an O-ring

- These valves contain plastic check modules and should never be directly soldered into the line. Sweat fit adapters should be soldered into the line prior to valve installation.
- Avoid improper application and excessive pipe sealants such as teflon® tape and pipe dope.

### Quick-Connect Installation To Connect:



- Mark pipe as shown. This is pipe insertion depth.
- Clean pipe end.



- If using PEX tubing, insert pipe stiffener (provided) into end of pipe.
- Push tubing into tailpiece up to mark.
- Insert collet clip.

### To Disconnect:

- Remove collet clip.
- Depress collet.
- Pull tubing from tailpiece.

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.

**⚠ WARNING**

When a pressure reducing valve or dual check valve is installed in the supply line, it creates a closed system which makes plumbing code compliance imperative for system safety. Special attention must be given by all concerned to assure pressure relief protection is provided to protect water heater equipment. It is important to make certain an approved ANSI Z21.22 temperature and pressure relief valve is installed on the storage water heater. This device is designed for emergency safety relief and should not be used as an operating control.

### High System Pressure

If the downstream system pressure is higher than the set pressure under a no flow condition, the cause could be thermal expansion. Thermal expansion occurs whenever is heated in a closed system. You must make provisions for thermal expansion protection of your plumbing system and components when installing a pressure reducing valve or dual check valve in the supply line.

The use of pressure relief valves such as Watts 530C, BRV, Governor 80, 3L and or a potable water expansion tank such as the Watts DETA and PLT may be required.

To determine if this is the result of thermal expansion, try briefly opening the cold water tap. If the increased pressure is caused by thermal expansion, the pressure will immediately be relieved and the system will return to the set pressure. Watts offers a pressure test gauge, model 276H300 when attached to a hose bibb registers the highest pressure reading over the period of time it is left on the system.



Watts 276H300

### NOTICE

The Watts 530C, BRV, Governor 80 and 3L are not ASME approved safety relief valves. Under no circumstances should these devices be used in place of an ASME approved valve. Consult your local water code authority to ensure installation compliance.

### LF7/7, LF7R, LF07S/07S, LF7C/7C, 7B, and LFCu7/Cu7

- Remove the Series 7 from the line (union nut and adapter remain in the line).
- Remove the two check modules by pressing firmly from the outlet end (end with wrench pads). O-ring seals will be removed with the removal of modules from the body.

### ⚠ CAUTION

To prevent damage to O-ring seals, do not attempt to pry the O-ring seal free before removing check modules.

### NOTICE

Complete check module assemblies are available as replacement parts. It is recommended that if check modules are fouled, that the entire check module be replaced.

- Inspect body bore and clean surfaces of any foreign material.
- Using silicone grease, apply small amount to each exterior surface of the O-ring seals. If O-ring is to be replaced, lubricate as above. A light application of silicone grease to inlet of body bore is beneficial. Do not lubricate seat of seat disc.

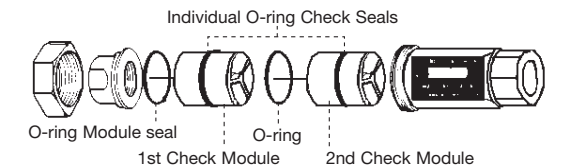
### NOTICE

Only FDA approved silicone grease

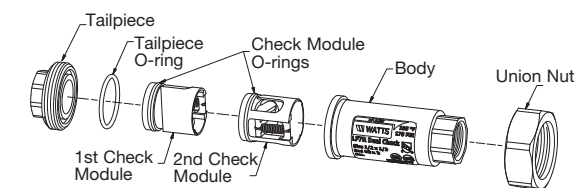
### ⚠ WARNING

For valves with CPVC or PEX end connections do not exceed the tubing manufacturers pressure and temperature ratings. Refer to the tubing manufacturers product specifications for that information.

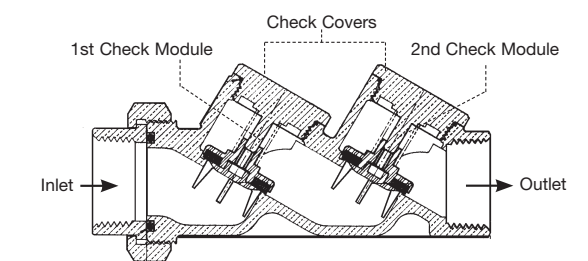
### Series LF7/7



### Series LF7R



### Series LFL7/L7



For repair kits and parts, refer to our Backflow Prevention Products Repair Kits & Service Parts price list PL-RP-BPD found on [Watts.com](http://Watts.com).

