Backflow Prevention & Flow Control for Plumbing

Valve Solutions from the Industry Leader

Watts.com

WATTS®

Backflow Prevention Solutions for Keeping Water Safe

Whether at home or in a commercial or industrial building, people expect safe and clean water when they turn on their faucets. The knowledge and diligence of plumbing professionals—paired with high quality, reliable equipment—ensures our potable water systems stay free of harmful or deadly contaminants.

By identifying cross-connections, specifying and installing the appropriate backflow preventers, and inspecting them to ensure they operate correctly and are up to code, plumbing professionals ensure our communities are safe from the dangers of backflow.

High-Risk Applications:

- Dishwashers
- Carbonated beverage dispensers
- Handheld shower heads
- Hose bibbs/sill cocks
- Irrigation systems
- Swimming pools
- Industrial supply piping
- Chemical feed pumps
- Laboratory sinks
- Cooling towers
- Boilers/HVAC systems

Typical Applications

Residential

Single family, apartments, condominium buildings

Commercial

Restaurants, car washes, hotels, salons, irrigation systems, HVAC, laundromats

The Watts Advantage

Broadest Range of Devices

From 10" Reduced Pressure Zone assemblies to hose bibb vacuum breakers, Watts has the valve you need with the options you want.

Most Specified

With a reputation for high quality and performance, Watts backflow preventers are trusted by specifying engineers to protect the systems they design.

Largest Rep Network

Wherever you are, you'll have local support from our extensive network of representatives equipped with knowledge and training to help you specify, install, troubleshoot, and repair backflow preventers.

Smart and Connected

Select devices include sensor technology for flood protection, pressure monitoring, or freeze detection. Sensor activation installs a virtual watchman on guard to signal changes in backflow preventer performance or in temperature that could affect equipment.

Industrial
Laboratories, food processing plants, cooling towers, chemical feed pumps

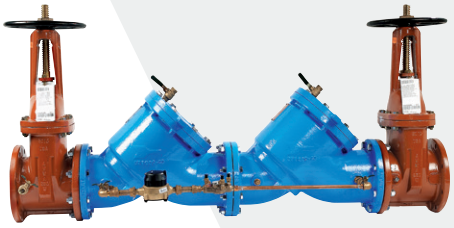
Institutional
Schools, universities, hospitals

Large Diameter Testable Backflow Preventers

Double Check Valve and Double Check Detector Assemblies

Watts Double Check Valve and Double Check Detector assemblies prevent backflow of non-health hazard pollutants that are objectionable but not toxic from entering the potable water supply system. These assemblies may be installed under continuous pressure service and subjected to backpressure and backsiphonage. Each consists of two independently operating check valves, two shutoff valves, and four test cocks. Double check detector assemblies also include an additional bypass with double check and meter. Sensor technology on select devices does not affect assembly function or certification.

LF709-NRS-IOT



LF709DCDA

Series LF709, 709DCDA

- Integrated sensors for pressure measuring on LF709 Model IOT with NRS gate valves (Suitable for non-fire protection applications.)
- Pressure data collected with add-on monitoring connection kit (BMS only)
- Fused epoxy coated cast iron body
- 709DCDA furnished with ⅝" x ¾" bronze meter
- Size: 2½" – 10"

LEARN MORE ABOUT PRESSURE MONITORING

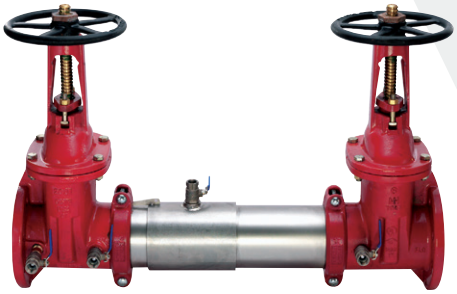
Series LF007

- Compact double check valve assembly built with in-line, modular checks
- Integrated sensors for pressure measuring on Model IOT with NRS gate valves (Suitable for non-fire protection applications)
- Pressure data collected with add-on monitoring connection kit (BMS only)
- Fused epoxy coated cast iron body
- Size: 2½" – 3"

LF007-NRS-IOT

Series 757, LF757DCDA, LF757NDCDA

- Lead Free* construction, extremely compact, and 70% lighter than traditional designs
- 304 (Schedule 40) stainless steel housing and sleeve
- Groove fittings allow integral pipeline adjustment
- Unique tri-link spring check provides lowest pressure loss
- Available with grooved butterfly valve shutoffs
- May be used for horizontal, vertical, or N-pattern installation
- Size: 2½" – 10"



757

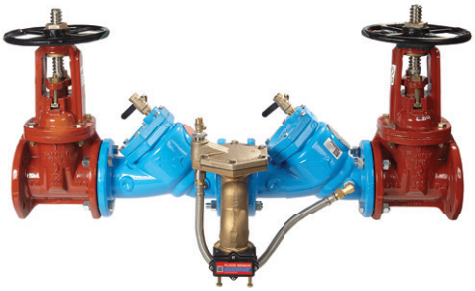
Reduced Pressure Zone and Pressure Detector Assemblies

Watts Reduced Pressure Zone and Reduced Pressure Detector assemblies are designed in accordance with water authority containment requirements to protect the potable water system from health hazard applications. They prevent the reverse flow of water due to backpressure or backsiphonage for applications where potential pollutants are toxic, such as fertilizer chemicals. Sensor technology on select devices does not affect assembly function or certification.

Series LF909, 909RPDA

- Sensor on the relief valve for flood protection; alert feature activated with add-on sensor connection kit
- Fused epoxy coated cast iron body
- Maximum flow at low pressure drop
- Design simplicity to ease maintenance and compact to combine economy and performance
- 909RPDA furnished with ⅝" x ¾" meter
- Continuous pressure
- Size: 2½" – 10"

LEARN MORE ABOUT FLOOD PROTECTION

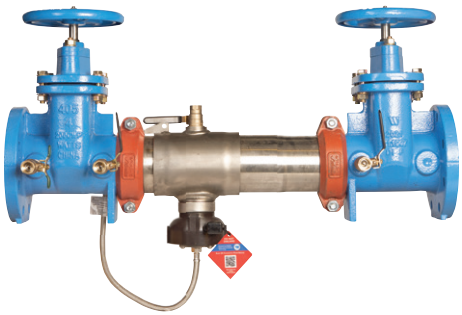


LF909 with flood sensor

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Series 957, 957RPDA, LF957RPDA

- Sensor on the relief valve for flood protection
- Flood alerts feature activated with add-on sensor connection kit
- Replaceable check disc rubber
- Extremely compact design
- 70% lighter than traditional designs
- 304 (Schedule 40) stainless steel housing and sleeve
- Groove fittings allow integral pipeline adjustment
- Patented torsion spring checks provide lowest pressure loss
- Unmatched ease of serviceability
- Bottom mounted cast stainless steel relief valve
- Available with grooved butterfly valve shutoffs
- Available in N and Z patterns
- Size: 2½", 3", 4" available with quarter turn ball valve shutoffs



957 with flood sensor

957N with flood sensor

Small Diameter Testable Backflow Preventers

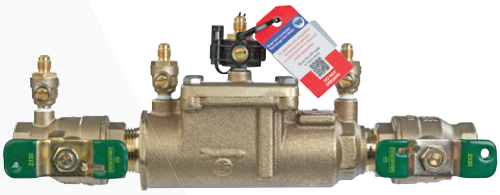
The superior performance of Watts large diameter backflow preventers is also a feature of its small diameter double check valve and reduced pressure zone assemblies. Sensor technology on select devices does not affect assembly function or certification.

Double Check Valve Assembly

Series LF007

Compact Double Check Valve assembly built to protect potable water from backsiphonage in non-health hazard applications. In-line modular checks and a single access cover.

- Series 007 includes a sensor on one test cock for freeze detection; freeze alerts feature activated with add-on sensor connection kit; sizes ½" to 2"
- Ease of maintenance — only one cover and top entry
- Size: ¼" – 2" lead free cast bronze
- Size: ½" – 2" available with press end connections



LF007 with freeze sensor

LEARN MORE ABOUT FREEZE DETECTION

Reduced Pressure Zone Assemblies

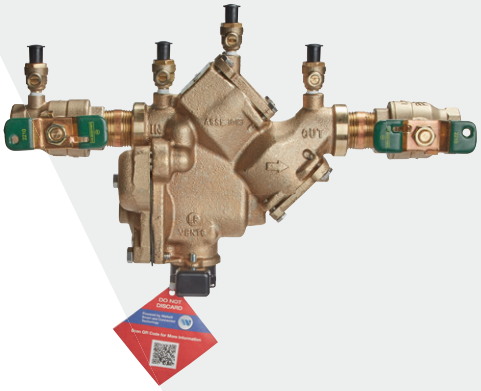
Series LF009

Series LF009 Reduced Pressure Zone assemblies are designed to protect high hazard applications from backpressure and backsiphonage.

- Single access cover and modular check construction for ease of maintenance
- Internal relief valve for reduced installation clearances
- Large body passages provide low pressure drop
- Health hazard applications
- Continuous pressure
- Size: ¼" – 2" lead free cast bronze; 2½" and 3" fused epoxy coated cast iron
- Size: ½" – 3" include a sensor on the relief valve for flood protection; flood alerts feature activated with add-on sensor connection kit (Also available with press end connections.)

LF009-QT with flood sensor

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



LF909 with flood sensor

Series LF909

Series LF909 Reduced Pressure Zone assemblies are designed to provide superior cross-connection protection in health hazard applications.

LEARN MORE ABOUT FLOOD PROTECTION

- Sensor on the relief valve for flood protection
- Flood alerts feature activated with add-on sensor connection kit
- Dual cover check access
- Independent relief valve section
- Y pattern
- Air-in/water-out relief valve for maximum safety
- Lead Free*
- Modular, compact design for ease of installation and maintenance
- Replaceable seats
- Approved for vertical up flow on sizes ¾" and 1"
- Continuous pressure
- Size: ¾" – 2"

LF919 with flood sensor

Series LF919

Series LF919 Reduced Pressure Zone assembly protects potable water supplies in a variety of installations, including prevention of health hazard cross-connections or containment at the service line entrance. Lead Free* construction to comply with Lead Free* installation requirements.

- Sensor on the relief valve for flood protection
- Flood alerts feature activated with add-on sensor connection kit
- Separate access covers for the check valves and relief valve to ease maintenance
- Compact, space saving design
- NPT body connections
- Size: ½" – 2"

LF800M4QT with freeze sensor

Pressure Vacuum Breakers

Sensor technology on select devices does not affect assembly function or certification.

Series LF800M4QT, LF800M4FR

Series LF800M4QT Pressure Vacuum Breakers are designed to prevent backsiphonage of contaminated water into a potable water supply. The valve is ideally suitable for irrigation systems, industrial process water systems and other continuous pressure piping system applications where the water enters the equipment at or below its flood rim.

LEARN MORE ABOUT FREEZE DETECTION

- Replaceable plastic seat
- Sensor mounted to test cock signals when temperature nears the freezing point
- Freeze alerts feature available with add-on connection kit for building/irrigation management system
- Lead Free*
- Easy maintenance of internal parts
- Acetal bonnet acts as “freeze plug” to prevent body damage
- O-ring bonnet seal for less possibility of fouling
- Standardly equipped with tee handle quarter turn ball valve shutoffs on sizes ½" to 1"; sizes 1¼" to 2" feature lever handles
- Available with a unique built-in relief valve to relieve pressure caused by ice formation (LF800M4FR)
- Size: ½" – 2"

LF800M4FR with freeze sensor

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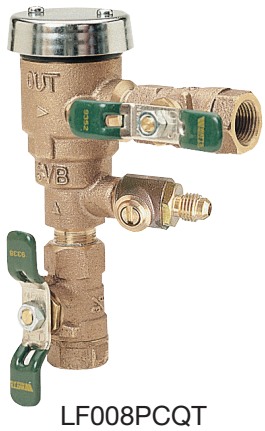
Series LF008PCQT

Series LF008PCQT Pressure Vacuum Breakers are designed for indoor point-of-use applications to prevent backsiphonage of contaminated water back into the potable water supply. Separation of the water supply from the air inlet is accomplished by means of a diaphragm seal. This feature protects against any spillage during start-up or operation.

- Supplied with internal polymer coating and tee handles as standard
- Available less tee handle with stem wrench flats (For use where space is limited.)
- Available in left-handed or right-handed outlet
- Spill-resistant design for indoor use
- Modular cartridge for ease of service
- Vent uses an O-ring for reliable operation
- Bronze body for durability
- Compact space saving design
- Satin chrome finish available
- Available with strainer
- Size: ⅜", ½", ¾", 1"



LF008PCQT

Non-Testable Backflow Preventers

Hose Bibb Vacuum Breakers

Series 8

Series 8 Vacuum Breakers are specially made to permit the attachment of portable hoses to hose thread faucets. Designed to prevent the flow of contaminated water back into the potable water supply, these devices require no plumbing changes, and screw directly onto a sill cock.

The 8 series is available in the following models:

- 8 – standard set screw
- 8A – non-removable model
- 8B – Break-away set screw
- NF8 – Permits manual draining
- 8P – reinforced thermoplastic, tamper-proof
- 8FR – with freeze relief feature
- 8C/8AC/8BC/NF8C – chromed versions
- Standard and Lead Free* available
- Size: ¾" hose thread

LF8A
Non-Removable Model

LFNF8
Permits Manual Drain

8P
Tamper-Proof Feature

LF8
Secured with allen head set screw

LF8B
Break-away set screw

LF8FR
Freeze relief feature

Atmospheric Vacuum Breakers

Series 188A, LF288A, LF289, LFN388

Watts Anti-Siphon Vacuum Breakers all come with durable silicone discs for heat, chemical, and water hammer shock resistance and lightweight disc floats to avoid spilling

- 188A — Leaded atmospheric vacuum breaker, ¾" – 2"
- LF288A — Lead Free* with full size orifice, ¼" – 3"
- LF289 — Lead Free* spill resistant, ½" and ¾"
- LFN388 — Lead Free* N-pattern, ¼" and ⅜"

188A

LF288A

LF289

LFN388

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Dual Checks/Dual Checks with Atmospheric Vents

LF7R

Series LF7R

Series LF7R Dual Check Valves are designed for non-health hazard residential water system containment and continuous pressure applications, such as the drinking water supply service entrance or individual outlets. Series LF7R uses two compact check modules and is typically installed immediately downstream of the residential water meter. The LF7R features Lead Free* construction to comply with Lead Free* installation requirements.

- Designed for residential water system containment, such as drinking water supply service lines
- Continuous pressure
- For non-health hazard applications
- Available with a variety of inlet/outlet connection options
- Size: ½" – 1"

9D

Series 9D

Series 9D and LF9D are specially made for smaller supply lines and ideally suited for laboratory equipment, processing tanks, sterilizers, dairy equipment, and specifically boiler feed lines.

- True line-sized construction allows the check modules to open further allowing dirt and debris to pass more freely reducing check fouling
- Stainless steel internal parts
- Maximum flow at low pressure drop
- Furnished with union connections to facilitate removal and replacement for maintenance
- Can be installed vertically or horizontally
- Integral stainless steel strainer
- Size: ½" M3, ¾" M2

BD911

Series BD911

Series BD911 combination fill valve and backflow preventer consists of a Model 9D backflow preventer and Model BD1156F feed water pressure regulator in one pre-assembled unit. This valve is a high capacity valve designed for use on boiler feed lines to provide make-up water to the boiler and prevent backflow when supply pressure fails below system pressure and incorporates a unique push-button fast fill engagement with auto-stop that prevents over-pressurization.

- Pre-assembled for ease of installation
- Push button fast fill with auto-stop to prevent system over-pressurization
- Dial indicator eliminates need for pressure gauge
- Same lay length as Watts Series 911
- High capacity fill valve for quick system filling and purging
- Size: ½"

Approvals

** **

Backflow Preventer assemblies Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC).

Refer to product specification sheets for full list of industry certification and approvals.

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**Assembly configured with UL Classified and FM Approved OS&Y RW Gate Valves. Less gate valve assemblies are not UL Classified and FM Approved configurations.

Accessories

Backflow Preventer Test Kits

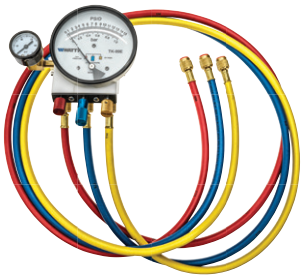
Backflow preventer test kits such as the TK-9A, TK-99E, and TK-7 are for testing backflow preventers such as pressure vacuum breakers, double check valve assemblies, and reduced pressure zone assemblies. Designed for simplified operation and rugged reliability, each kit is compact for ease of handling and accessibility so you can get the job done.

Some features include:

- Color-coded valves and hoses, hose adapters, shock cord for easy mounting (TK-9A and TK-99E)
- Supply pressure gauge (TK-99E)
- Durable, shatterproof tubing (TK-7)
- Hard carrying case to protect kit and ease transportation (TK-9A and TK-99E)
- Compact leather carrying case (TK-7)

Visit the Watts website to learn more about each backflow preventer test kit.

TK-9A



TK-99E

TK-7

Air Gaps

An air gap provides the unobstructed, physical separation between the discharge end of a potable water supply line and an open receiving vessel.

The installation of an air gap and drain line on the relief valve of reduced pressure zone assemblies is recommended.

AIRGAP-P-1

AIRGAP-P-2

Series WVS

Series WVS Valve Setters are designed to augment the installation of the “N” series backflow prevention valves. The Series WVS are available in three connection options, Flange by Flange, Mechanical Joint by Flange, and Mechanical Joint by Mechanical Joint.

- Corrosion resistant fusion epoxy coated.
- Eliminates the need for thrust blocks or other restraints at the point of installation.
- Flange: ANSI B16.1 Class 125 (Standard)
  ANSI AWWA C153 A21.53-88

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Series W-SPL

Series W-SPL “Make Up” Spools are used when retrofitting a backflow preventer into an installation where an existing backflow preventer is being replaced. Available in Lightweight 300 series Stainless Steel or Epoxy coated Carbon Steel. AWWA 150# Class “D” Carbon Steel Flanges offered as standard. 150# Class “D” Stainless Steel Flanges upon special request.

Model RK-EZ-STD

Model RK-EZ-STD Valve and Meter Support Stands allow for quick and easy installation and allows the height to be field adjustable. The support stand is of all-welded construction and incorporates a corrosion-resistant coating.

- One stand adapts to fit varying installation heights
- Corrosion-resistant coating on bars
- Epoxy coated yoke and mounting plate
- Size: 10" – 38"

Automatic Control Valves

Commerical Market

LFM115

Series LFM115

Series LFM115 Pressure Reducing Automatic Control Valves reduce high inlet pressure to constant, lower, outlet pressure across a broad range of flow.

- ArmorTek® coating technology for protection against corrosion
- Valves can be installed in parallel or series configurations for extended flow range or staged pressure reduction
- Field-adjustable downstream pressure set point
- Common feature combinations include pressure reducing with hydraulic check, solenoid on/off, downstream surge protection, or upstream pressure sustaining

LEARN MORE ABOUT ARMORTEK

DOWNLOAD ARMORTEK BROCHURE

LFM116

Series LFM116

Series LFM116 Pressure Relief/Sustaining Automatic Control Valves open when inlet pressure is above the set point, and throttle when pressure is below the field-adjustable set point.

- ArmorTek coating technology for protection against corrosion
- Valves maintain desired settings with close pressure tolerances
- UL Listed fire versions available
- Multiple set pressures
- Differential relief version availablee

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Series LFM110

Series LFM110 Float Automatic Control Valves are available for either on/off or modulating service.

- On/off type valves controlled by float pilot equipped with adjustable high- and low-level stop collars allow for calculated level draw-down
- Modulating-type valves maintain constant water level proportional with tank draw
- Valve- or remote-mounted float controls
- Level operation can be reversed for special applications
- Additional feature combinations include pressure sustaining and solenoid on/off

LFM110

Series LFM113

Series LFM113 Solenoid Automatic Control Valves can be configured for either on/off or electric positioning service.

- Electric positioning type valve interfaces with SCADA systems and throttles open or closed to maintain desired process variable
- Valves can be configured to open, close, or hold-last-position with loss of electrical signal
- Common applications include pressure, level, or flow control
- Valves can be equipped with limit switches or 4-20 mA position feedback device

LFM113

Strainers

Small Diameter Strainers, Brass, and Bronze

Series LF777, LF77S, LF777SI

Series LF777, LF777S, and LF777SI Wye-pattern Lead Free* cast copper silicon alloy Strainers are designed to protect system components from dirt, rust and other damaging debris in the piping system. This series features a solid retainer cap with gasket. Series LF777 and LFS777 feature Lead Free* construction to comply with Lead Free* installation requirements.

- LF777 — Lead Free* Wye-pattern, Lead Free* bronze strainer, ¼" – 4"
- LF777S — Lead Free* Wye-Pattern bronze strainers, ½" – 4"
- LF777SI — Lead Free* brass, Wye-pattern strainers with tapped retainer cap, ⅜" and 3"

LF777

LF777S

LF777SI

Large Diameter Strainers, Cast Iron and Ductile Iron

Series LF77F-DI-125, LF77F-DI-250, LF77F-DI-FDA

Series LF77F-DI-125, LF77F-DI-250, LF77F-DI-FDA-125 Flanged, Wye-pattern, Cast Iron Strainers feature 304 stainless steel perforated screens, a cast iron flanged retainer cap and a drain/blowoff connection furnished with a closure plug. Series 77F-DI-FDA-125 also features a double coated, heat fused epoxy coating on the interior and exterior for FDA Approved sanitary applications.

- LF77F-DI-125 — Cast iron, Class 125 flanged end, Wye-pattern strainers, 2" – 12"
- LF77F-DI-250 — Ductile iron, Class 250 flanged end, Wye-pattern strainers, 2" – 12"
- LF77F-DI-FDA-125 — Cast iron, Class 125 flanged end, Wye-pattern strainers with FDA epoxy coating, 2" – 12"

LF77F-DI-125

LF77F-DI-250

LF77F-DI-FDA-125

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Water Pressure Reducing Valves are designed to reduce incoming water pressure to a sensible level to protect plumbing system components and reduce water consumption. These Watts pressure reducing valves are serviceable in-line.

Pressure Reducing Valves

LF25AUB-Z3

Series LF25AUB-Z3

Suitable for water supply pressures up to 300 psi (20.7 bar). Can be adjusted from 25 to 75 psi (172 to 517 kPa).

- Standard construction includes Z3 sealed spring cage and stainless steel corrosion resistant adjusting and cage screws
- Union inlet connection
- Integral, independently serviceable stainless steel strainer
- End Connection options include threaded, solder, PEX, Quick-connect, CEF, and Press
- Replaceable seat module
- Lead Free* cast copper silicon alloy construction
- Bypass feature controls thermal expansion pressure***
- High temperature resistant reinforced diaphragm for hot water
- Size: ½" – 2"

LF223

Series LF223, LF223S

Suitable for water supply pressures up to 300 psi (20.7 bar). Can be adjusted from 25 to 75 psi (172 to 517 kPa). The standard setting is 50 psi (345 kPa).

- Enlarged diaphragm, spring cage, and seat orifice for super capacity performance
- Lead Free* brass body construction (except 2½" which is iron)
- Series LF223S furnished with separate strainer
- Optional bypass feature controls thermal expansion pressure***
- Sealed spring cage on all models for accessible outdoor or pit installation
- Size: ½" – 2½"

LFN45B-M1

Series LFN45B-M1

Suitable for water supply pressures up to 400 psi (27.6 bar). Can be adjusted from 25 to 75 psi (172 to 517 kPa). The standard setting is 50 psi (345 kPa).

- Integral stainless steel strainer
- Thermoplastic seat and cage
- Lead Free* cast copper silicon alloy body construction
- Bypass feature controls thermal expansion pressure***
- End Connection options include threaded, solder, PEX, Quick-connect, CEF, Press, and CPVC
- Sealed spring cage on all models for accessible outdoor or pit installations
- Size: ½" – 1"

LFN55B-M1

Series LFN55B-M1

Suitable for water supply pressures up to 400 psi (27.6 bar). Can be adjusted from 25 to 75 psi (172 to 517 kPa).

- Integral stainless steel strainer
- Thermoplastic seat
- Lead Free* brass body construction
- Bypass feature controls thermal expansion pressure***
- End Connection options include threaded, solder, PEX, Quick-connect, CEF, Press, and CPVC
- Sealed spring cage on all models for accessible outdoor or pit installations
- Size: ½" – 1"

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
***The bypass feature does not prevent the pressure relief valve from opening on the hot water supply system with pressure above 150 psi (10.3 bar).

Shutoff Valves

Series LFB6080G2, LFB6081G2

Series LFB6080G2 and LFB6081G2 ball valves are used in commercial and industrial applications for a full range of liquids and gases. They feature a blowout-proof pressure full-port orifice which ensures minimal pressure drop. Model LFB6080G2 has threaded NPT end connections and Model LFB6081G2 has solder end connections. Pressure rating for ¼" to 2": 600 psi WOG (non-shock) 150 psi WSP.

- Lead Free* forged bronze body and adapter
- Stainless steel ball and stem available on models in the G2-SS series
- Minimal pressure drop due to large ports
- Blowout-proof, pressure-retaining stem
- Adjustable stem packing gland
- Buy American Act (BAA) compliant
- Size: ¼" – 2"

LFB6081G2

LFB6080G2

Series LFB6090, LFB6091

Series LFB6090 and LFB6091 ball valves are used in commercial and industrial applications for a full range of liquids and gases. They feature a blowout-proof pressure full-port orifice which ensures minimal pressure drop. Model LFB6090 has threaded NPT end connections and Model LFB6091 has solder end connections. Pressure rating for ¼" to 2": 600 psi WOG (non-shock) 150 psi WSP.

- Lead Free* forged bronze body and adapter
- Stainless steel ball and stem available on models in the -SS series
- Minimal pressure drop due to large ports
- Blowout-proof, pressure-retaining stem
- Adjustable stem packing gland
- Size: ¼" – 2"

LFB6090

LFB6091

Series LFBV-3-Press-M1, LFFBV-3-Press-XLC

2-Piece, Full Port, Lead Free* Brass Ball Valves with Integral Press Fitting End Connection

Designed for use in ProPress® Piping Systems

- Lead Free* brass body
- Press connection rated to 250 psi CWP up to 210°F (13.4 bar to 99°C)
- Bottom-loaded, blowout-proof stem with stem O-ring seal
- Size: ½" – 4"

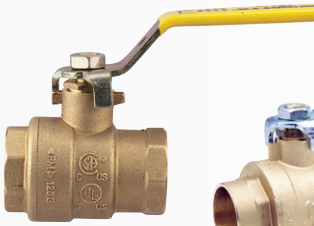
LFFBV-3-Press-M1

LFFBV-3-Press XL-C 2½" - 4"

Series LFFBV-3C, LFFBVS-3C, LFFBV-3C-QC

Standard material FBV-3C and FBVS-3C are available for non-potable applications.

- Lead Free* forged copper silicon alloy body and adapter
- Certified to NSF/ANSI Standard 61/8
- CSA Approved threaded valves only, ¼" – 3"
- Fluorocarbon elastomer stem O-ring prevents stem leaks
- Adjustable stem packing gland
- PTFE stem packing seal, thrust washer, and seats
- Bottom-loaded blowout-proof stem
- Machined chrome-plated Lead Free* brass ball
- Sizes: ¼" – 4"

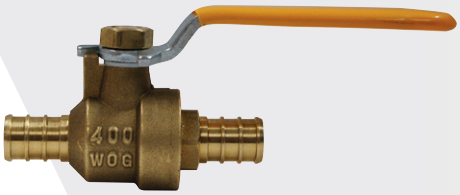


LFFBV-3C

LFFBVS-3C

LFFBV-3C-QC

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



LFFBV-PEX

Series LFFBV-PEX

Series LFFBV-PEX ball valves with PEX ends are designed for use in PEX piping systems and have a Lead Free* brass body. They feature Lead Free* brass PEX end tailpieces designed for easy crimping into a PEX piping system.

- 2-piece, full port design
- Forged Lead Free* brass body
- Valve rated to 400 WOG
- Crimp connection rated to 160 psi at 73°F (23°C)
- Size: ½" – 1"

LFBRVPM1
PEX x PEX x
Compression

LFBRVTM1
THD x THD x
Compression

Series LFBRVM1

Series LFBRVM1 Combination Ball Valve and Relief Valve are an easy to install two-in-one device designed to provide both a means to shut off the water supply to the water heater and to provide protection against excess water pressure caused by thermal expansion. It features Lead Free* construction to comply with Lead Free* installation requirements.

- Easy Installation – Installs in any position
- Low profile design
- Full port ball valve with virgin PTFE seats
- Blowout-proof stem
- Size: ¾"

LFBRVM1
S x S x BARB

LFBRVM1PxTxP
PEX x THD x PEX

Models

INLET	OUTLET	RELIEF OUTLET	RELIEF PRESSURE
Sweat	Sweat	PEX	80
Sweat	Sweat	Compression	125
Sweat	Sweat	Barb	125
Thread	Thread	Compression	80 or 125
Thread	Thread	Barb	125
PEX	PEX	Compression	125
PEX	PEX	PEX	125
PEX	PEX	Barb	125

Series BF-03-M2
Full Lug

Series BF-04-M2
Wafer

Series BF-03-M2 Full Lug, BF-04-M2 Wafer

Series BF butterfly valves are designed and manufactured for use with ANSI 125 or 150 Class flanges and comply with API 609 and MSS-SP 67 standards to meet the stringent requirements of HVAC, irrigation, OEM, commercial, institutional, and industrial applications.

- 200 psi (13.8 bar) pressure rating for 2" – 12", and 150 psi (10.3 bar) pressure rating for 14" – 24"
- Standard ductile iron body; options include aluminum bronze and 316 stainless steel discs and 416 stainless steel or 316 stainless steel shaft
- Phenolic-backed seat 2"– 12", or aluminum-backed seat 14" – 24" that prevents the seat from collapsing or dislodging
- Size: 2" – 24" in wafer or lug body design

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Series 405-NRS-RW

Series 405-NRS-RW Non-Rising Stem Resilient Wedge Gate Valves are available in sizes 2" to 12" flanged by flanged and 2½" to 10" flanged by grooved configurations. The valve body is epoxy coated internally and externally. The valve is operated by a handwheel or an operating nut and valve key. The resilient wedge disc design offers both positive seating and resistance against high differential pressure. Series 405-NRS-RW is best suited for service in either the fully open or closed position but is suitable for use as a throttling valve. This series is recommended for irrigation, potable water, water distribution service, feed lines, and sewage disposal facilities.

- ASTM A126 Class B Iron (flanged x flanged)
- ASTM A536 65-45-12 Ductile Iron (flanged x groove)
- Full port flow, low head loss
- Epoxy coated, internal and external
- Vulcanized encapsulated resilient wedge
- In-line serviceable
- Boss-tapped and plugged
- Size: 2" – 12" (epoxy coated)

405-NRS-RW

Series 408-OSY-RW

Series 408-OSY-RW Outside Stem and Yoke Resilient Wedge Flanged Gate Valves are fusion bonded powder coated cast iron and operated by a handwheel. The resilient wedge disc design offers positive seating and resistance against high differential pressure. Series 408-OSY-RW is best suited for service in either the fully open or closed position. It is also suitable for use as a throttling valve. This series is recommended for fire main shutoff and distribution service. The 408-OSY-RW features Lead Free* construction to comply with Lead Free* installation requirements.

- ASTM A126 Class B Cast Iron
- Full port flow, low head loss
- Fusion bonded coating, internal and external
- Encapsulated resilient wedge
- Easy in-line service
- Replaceable disc
- Boss tapped and plugged
- MSS-SP-70 conformance
- Size: 2½" – 12" (epoxy coated)

405-OSY-RW

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Watts Family of Brands

Watts designs, manufactures, and sells an extensive line of flow control, water safety, water filtration & treatment, drainage, and PEX plumbing products.

The Watts family of companies provides a single source for solutions used to safely convey, conserve, and manage water.

Making Watts your single source for plumbing-related solutions will streamline your operations, save you money, and reduce the variety of repair parts needed for maintenance.

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