# ServiceBox™

## Accessible Water Service System

Patent #11,473,276

### Labor-Saving
Installs quickly and mounts securely.

Reduces time spent on the job at rough-in and finish.

Reduce leaks, call-backs and liability.

### Simple
ONE product replaces multiple items – Less mess, less waste.

Simple packaging – everything you need is included.

Reduces buying, stocking, handling, etc.

### Serviceable
Union connections with EPDM seals.

All valves are easily repairable and replaceable.

### Certified
Full Flow - ***600WOG*** valves.

Listed. Certified. Compliant.

### Consistent
No more guessing. No more varied costs. Standardized rough-ins

Repeatable installations for consistent results.

### Strong
Durable ABS box fastens securely to stud.

MainBlock tube anchors for rock-solid installations.

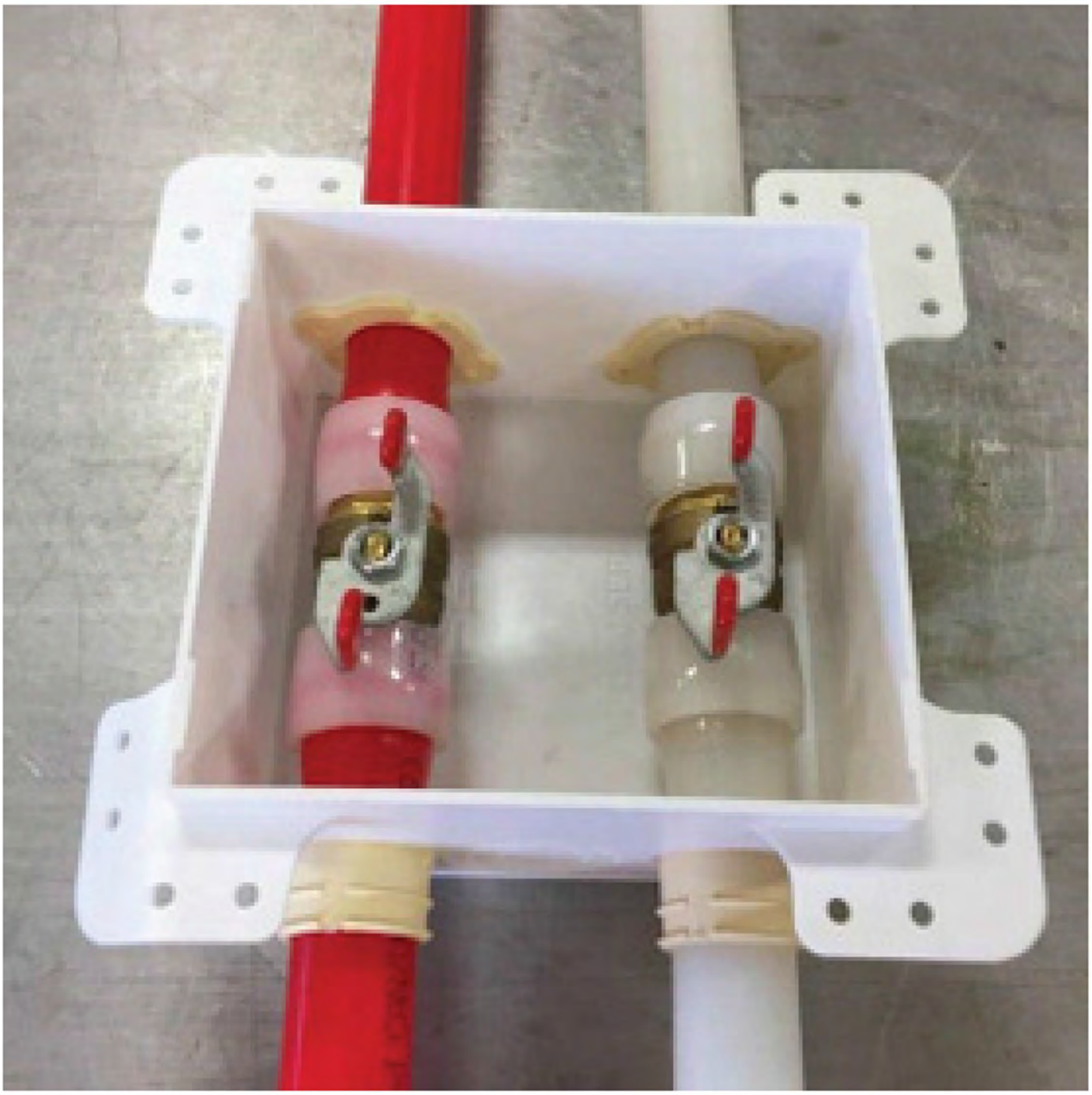
### Professional-Looking
Recessed valves set inside clean, compact, access boxes.
Paintable, beveled frames provide a stylish finish.

### Complete
All common connection styles. Sizes 1/2" – 1-1/4"

Approved for fire-rated or standard applications.

### Quality
Superior materials - DZR/SCC-resistant brass, EPDM sealing gaskets, anodized aluminum valve handles, ABS access boxes.

# Jobsite Examples - Applications for ServiceBox



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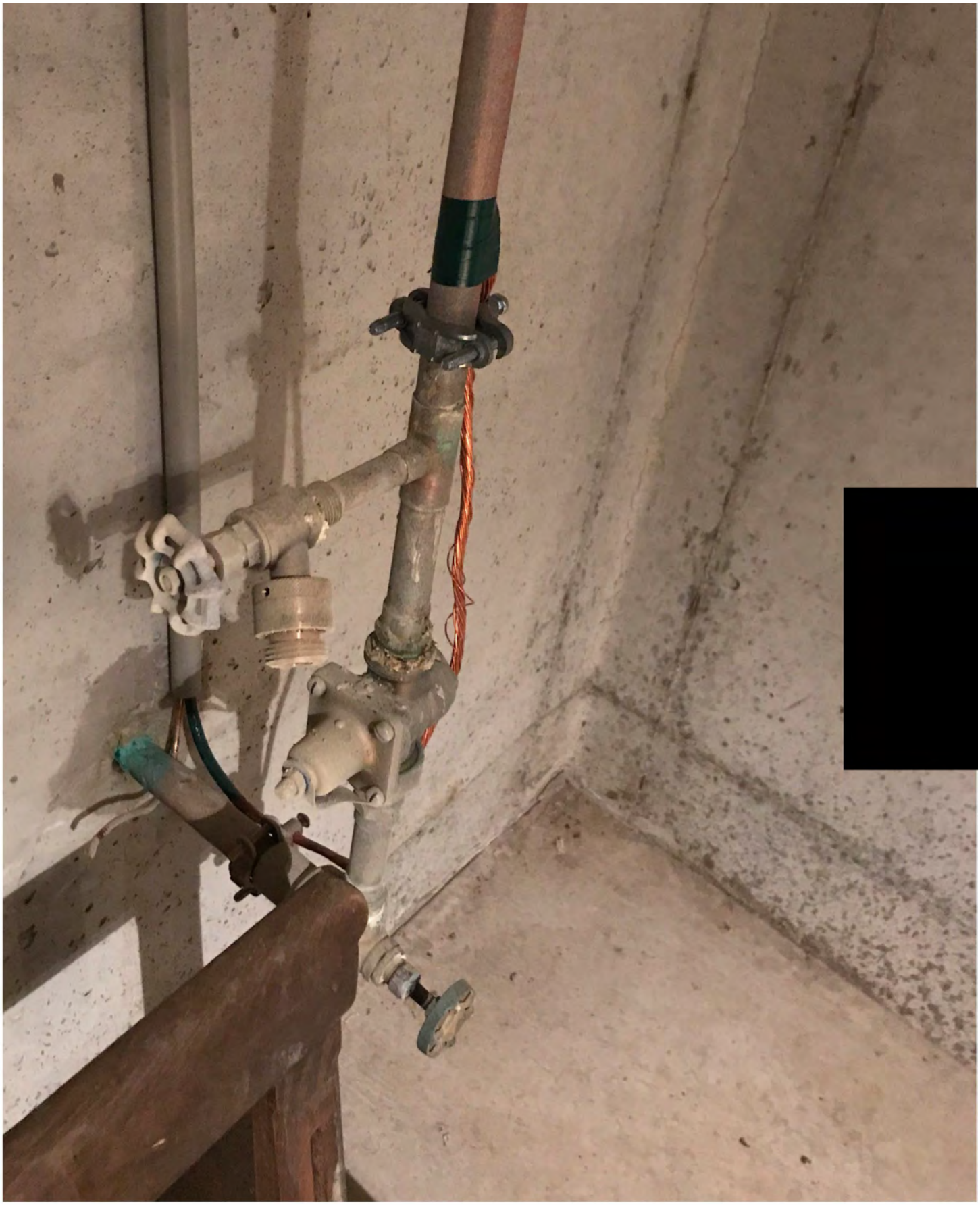

# Jobsite Examples - Applications for ServiceBox

**Jobsite Examples - Applications for ServiceBox**

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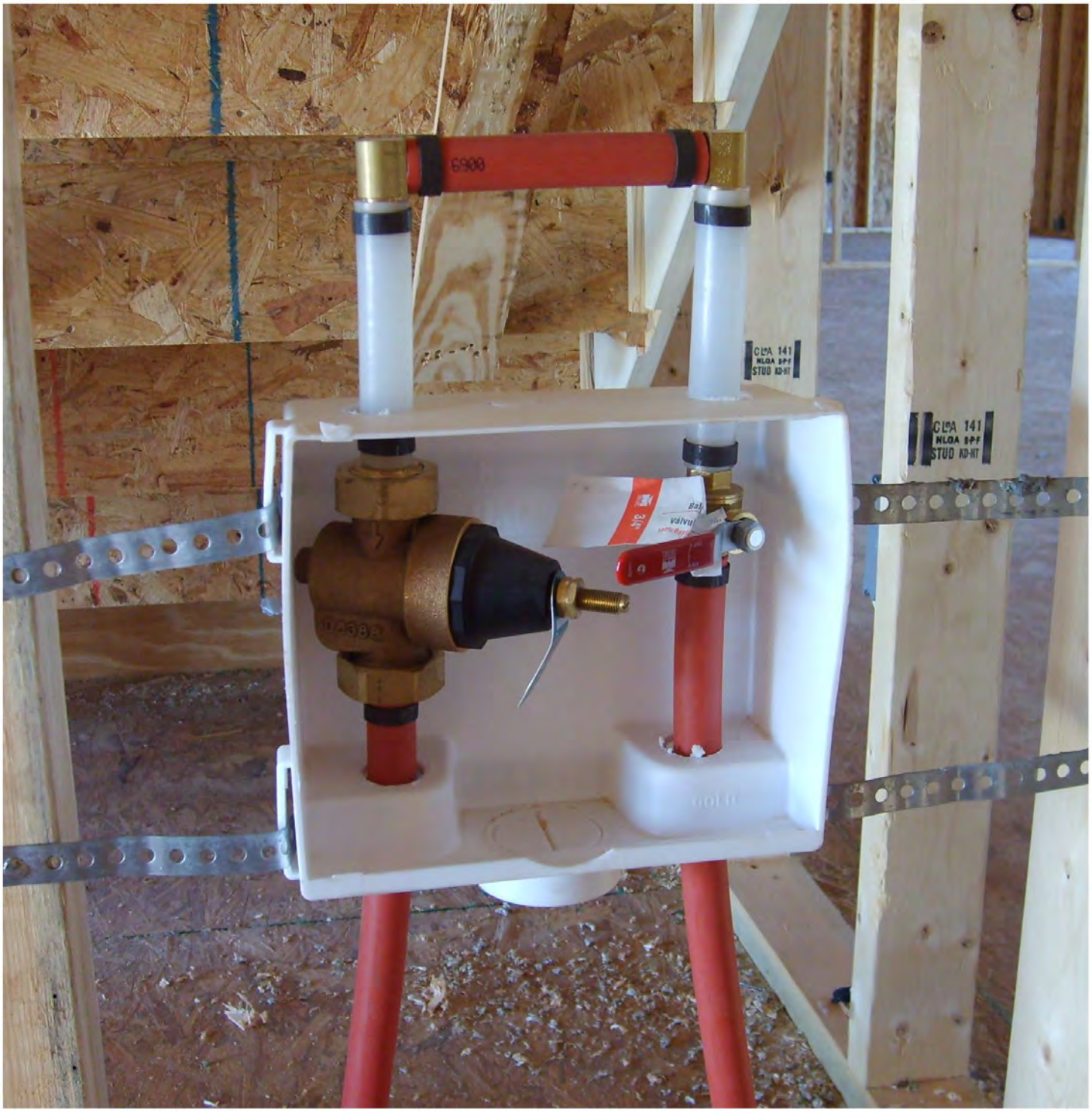
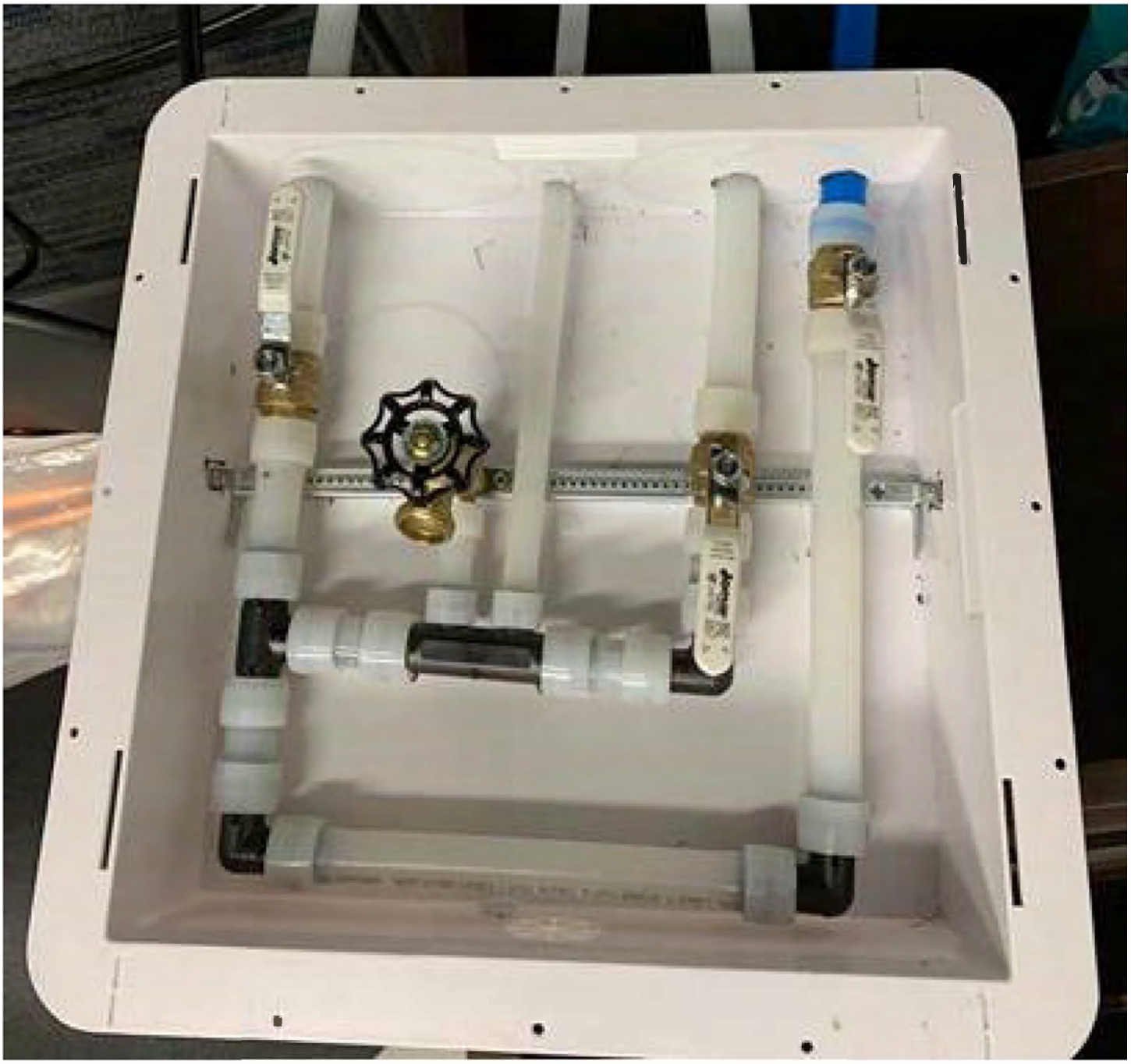


# Jobsite Examples - Applications for ServiceBox



**Jobsite Examples - Applications for ServiceBox**

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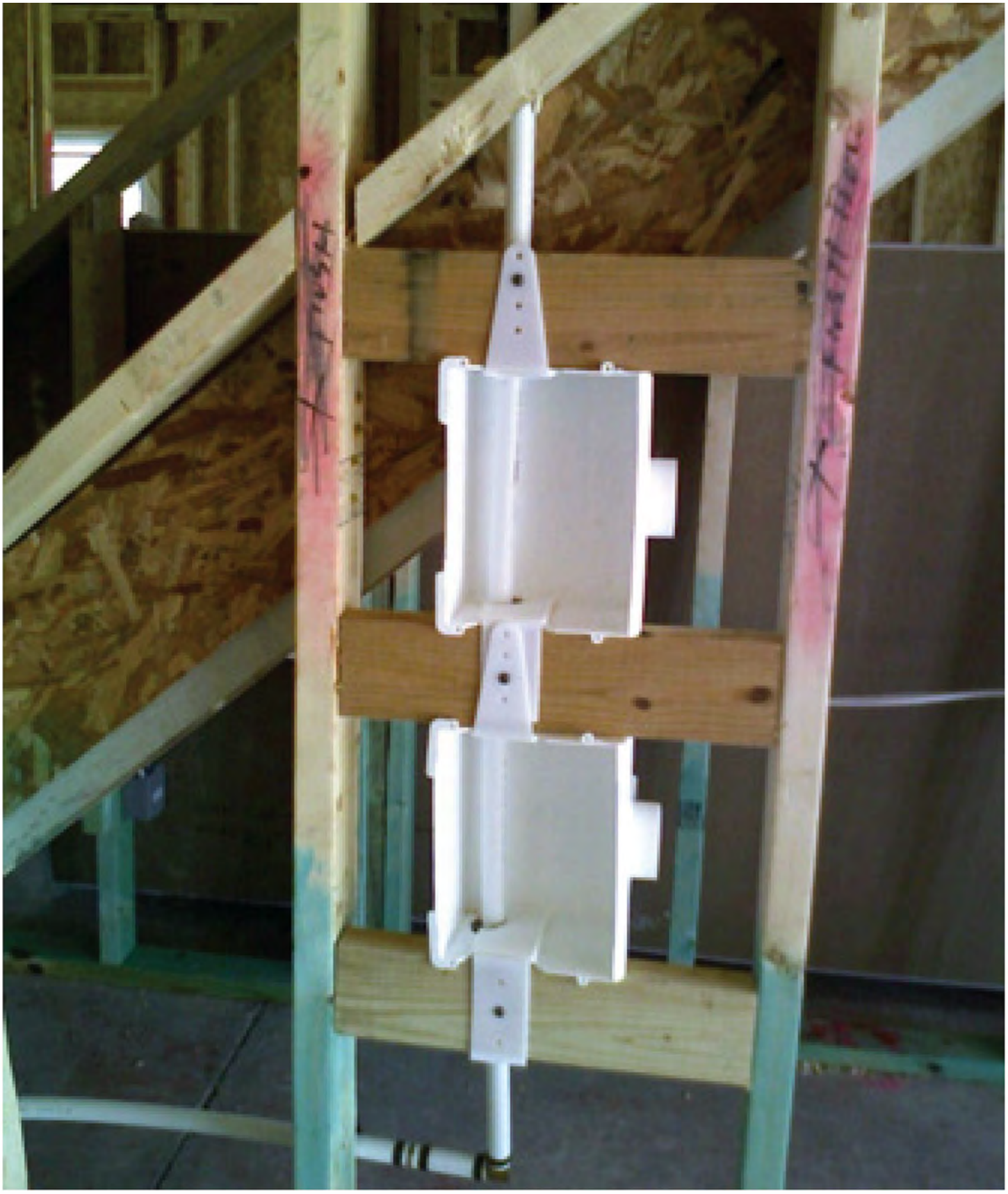

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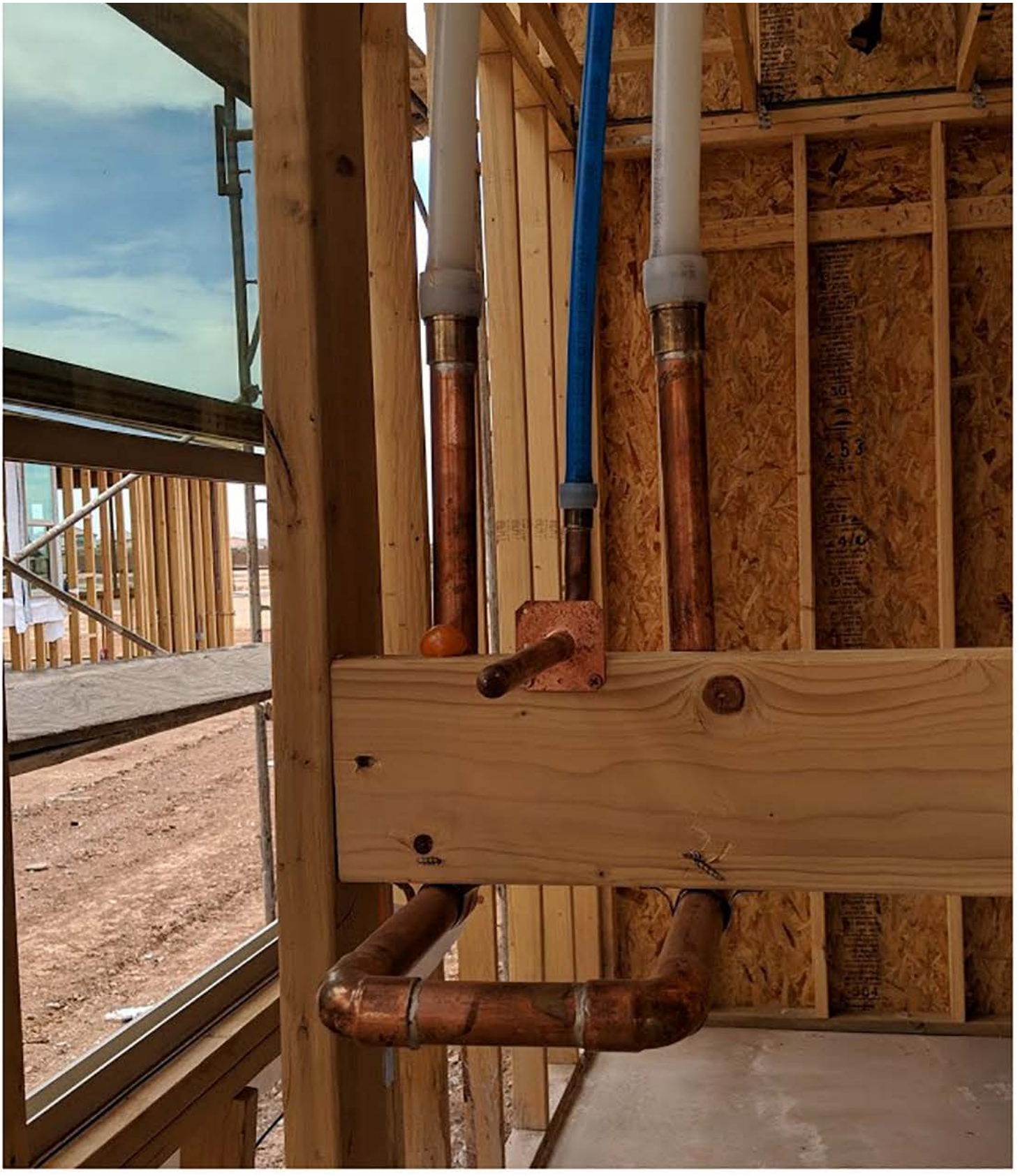

# Jobsite Examples - Applications for ServiceBox

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**Jobsite Examples - Applications for ServiceBox**

# Jobsite Examples - Applications for ServiceBox

## Jobsite Examples - Applications for ServiceBox

# Sioux Chief

## ServiceBox™

Accessible Water Service System

Supply | Drainage | Support | Specialties

www.siouxchief.com

TAKE THE FIELD.

Sioux Chief
















# ServiceBox™

## Initial Questions to Consider:

- How often is controlling material costs associated with valved appliances or line access points a concern?
- Does juggling costs through various suppliers and from job to job increase variability & inconsistency?
- How often does the layout of the various components require special attention, oversight and management?
- Do you audit jobs and installations for loss or damaged product?

# ServiceBox™

## Initial Questions to Consider:

- How often is an item covered up, forgotten, or lost? Did you spend additional time and expense to achieve the initially-desired outcome?
- Do you track the number of valves installed vs. the number of valves purchased?
- Do you try to standardize the installation of bracketing, the items installed, layout, and look of the installation?
- Is labor a large concern? Do you struggle to find affordable skilled labor?

# ServiceBox™

## System Features

### Labor-Saving
Installs quickly and mounts securely. Reduce leaks, call-backs and liability. Reduces time spent on the job at rough-in and finish.

### Simple
ONE product replaces multiple items – Less mess, less waste.
Simple packaging – everything you need is included.
Reduces buying, stocking, handling, etc.

### Serviceable
Union connections with EPDM seals.
All valves are easily repairable and replaceable.
Uniquely serviceable for long life.

# ServiceBox™

## System Features

### Consistent
No more guessing. No more varied costs.
Standardized rough-ins – provides a repeatable installation for consistent results.

### Strong
Robust box design fastens securely to stud. Exclusive MainBlock mounting system for rock-solid installations.

### Professional-looking
Valves are recessed and out of sight inside clean, compact, access boxes. Paintable, beveled frames provide a stylish finish.

# ServiceBox™

## System Features

### Complete
All common connection styles.
Approved for fire-rated or standard applications.
Connection sizes 1/2" – 1-1/4"

### Quality
Superior materials - DZR/SCC-resistant brass, EPDM sealing gaskets, anodized aluminum valve handles, durable ABS boxes.

### Certified
Full Flow - 600WOG valves. Listed. Certified. Compliant.

LEAD FREE COMPLIANT — NSF-61 Annex G
Fire-Rated
DZR — Dezincification Resistant
ASSE 1003
Stress-corrosion Cracking Resistant
UPC — IAPMO Listed

# ServiceBox™

## Additional Features:

- **Cost Control:** Turn variable labor costs to fixed costs
- **Planning:** Easier to plan/budget/order materials for a job
- **Handling:** Better material management and job flow
- **Aesthetics:** Compact box with beveled frame and cover options. Box size and frame style matches the OxBox system
- **Consistent:** Pre-colored white material. Same look every time. Quality results every time.

# ServiceBox™

## Additional Features:

- **Secure:** Durable ABS box. Rock-solid MainBlock tube anchors.
- **Protected:** Recessed valves are out-of-the-way. Cover plates included – works with all OxBox Products
- **Warranty:** Backed by Sioux Chief's Limited Lifetime Warranty. Turn leak liability risk into warranty-protected product
- **Quality Materials:** Full-Port, 600 WOG Valves. DZR and SCC resistant.

# ServiceBox™

## Additional Features:

- **Standardized:** Repeatable installations for various applications.
- **Professional-Looking:** Calling card looks. Quality looks.
- **Code-Compliant:** Full-Port ball valves, as required by Code. Not a standard or reduced port valve – like most PEX ball valves.
- **Convenient:** Water shutoff is easy to access. All valves designed with forward-facing drain ports.
- **Serviceable:** Union connections - Easy to repair, service, or replace.

# ServiceBox™

## Accessible Water Service System

Patent #11,473,276

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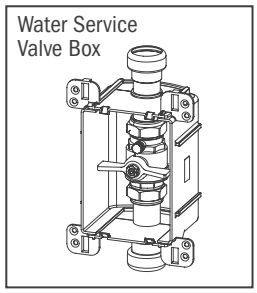
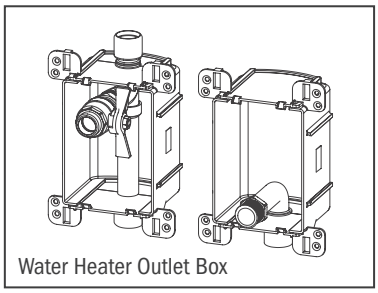
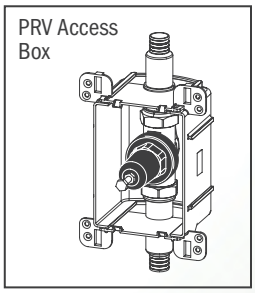
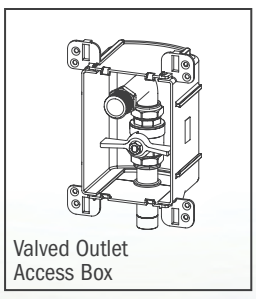
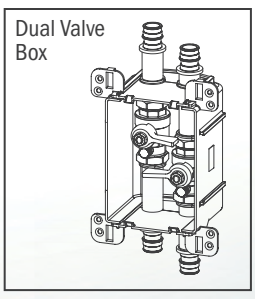
Listed. Certified. Compliant.

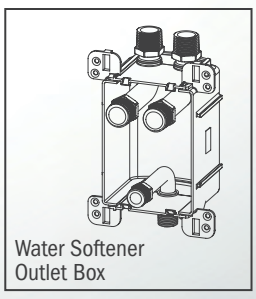


## Labor-Saving

Installs quickly and mounts securely. Reduce leaks, call-backs and liability. Reduces time spent on the job at rough-in and finish. Find out how much ***$$$*** you can save – our cost analysis forms (available online) use ***your*** current costs to calculate ***your*** savings.

## Simple

ONE product replaces multiple items – Less mess, less waste.
Simple packaging – everything you need is included ... Grab & Go.
Reduces buying, stocking, handling, etc.

## Serviceable

Union connections with EPDM seals.
All valves are easily repairable and replaceable.
Uniquely serviceable for long life.

## Certified

Full Flow - 600WOG valves.
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Robust box design fastens securely to stud. Exclusive MainBlock mounting system for rock-solid installations.

## Professional-looking

Valves are recessed and out of sight inside clean, compact, access boxes. Paintable, beveled frames provide a stylish finish.

## Complete

All common connection styles.
Approved for fire-rated or standard applications.
Connection sizes 1/2" – 1-1/4"

## Quality

Superior materials - DZR/SCC-resistant brass, EPDM sealing gaskets, anodized aluminum valve handles, durable ABS access boxes.

## Certifications

NSF-61 Annex G

Fire-Rated

Dezincification Resistant

1003

Stress-corrosion Cracking Resistant

IAPMO Listed

## Connections

F1960 Expansion

F1807 Crimp

CPVC Socket

CTS & IPS Push

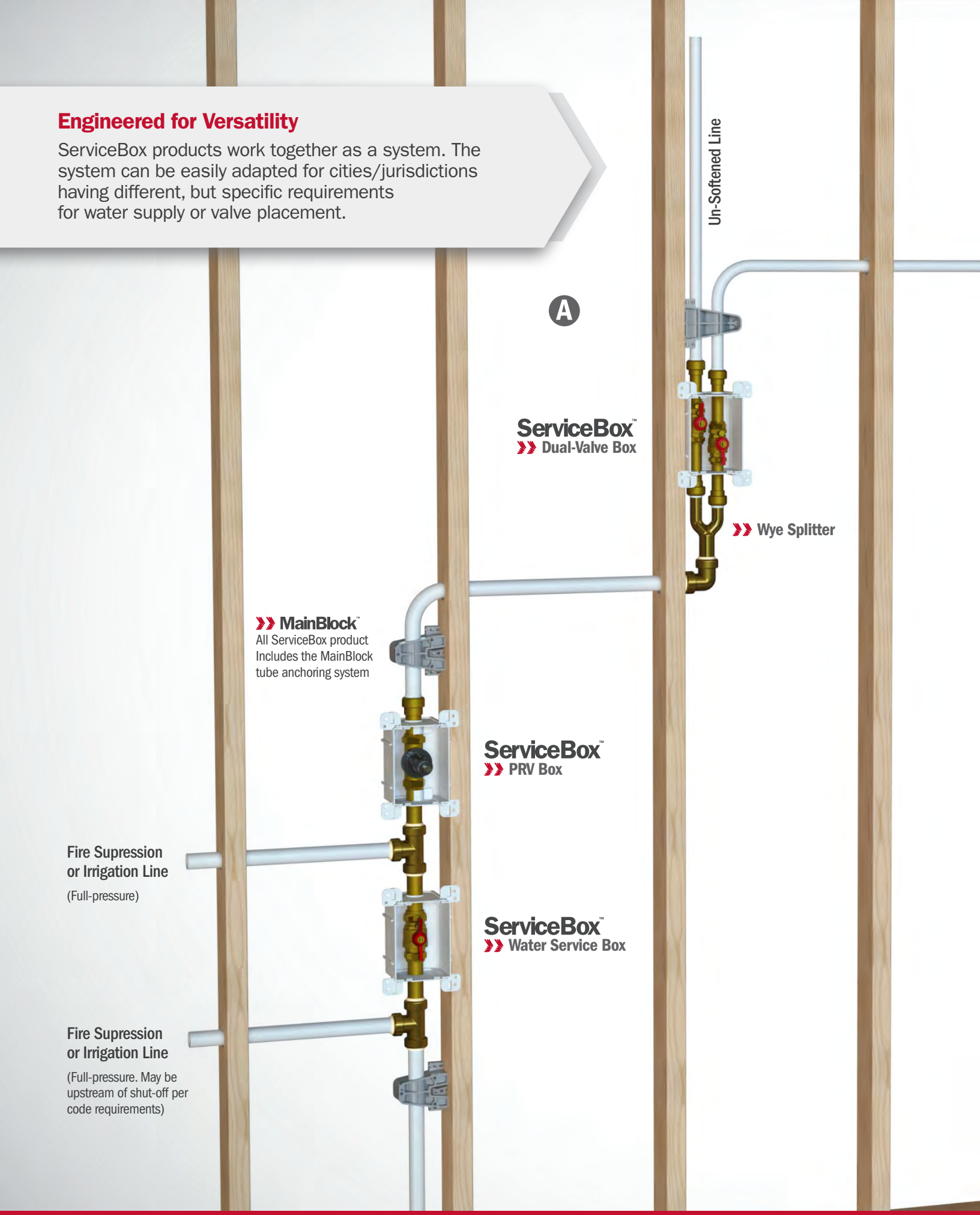
MSWT, Press, Push

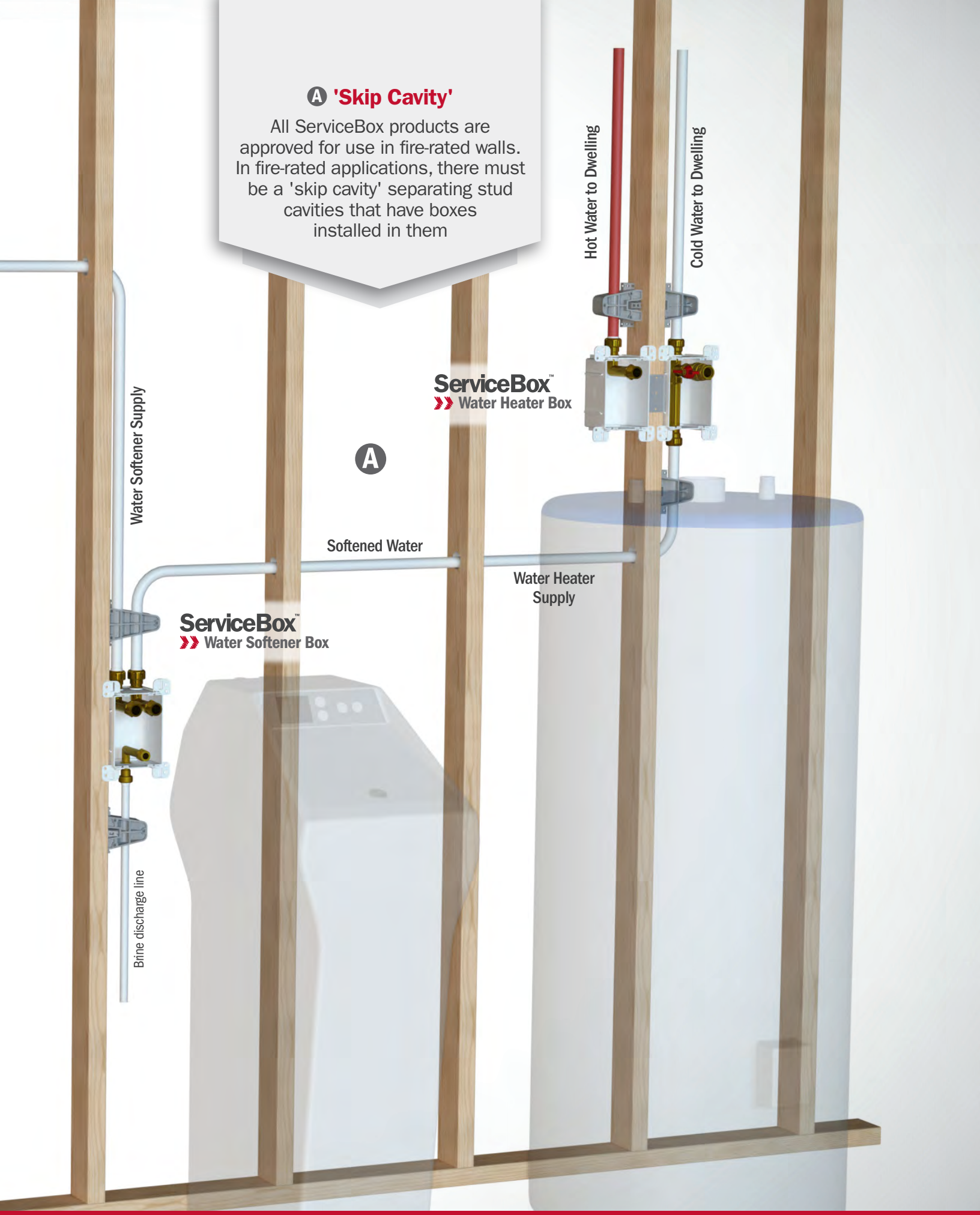
## Applications

- **Single Valve** for main or water supply shut-off,
- **PRV** for in-line connection to water supply box,
- **Valved Outlet** for appliances or misc. water service,
- **Dual-Valve** for separating/isolating lines,
- **Water Heater** flow-through or termination style,
- **Water Softener** with inlet/outlet and brine discharge
- **Anywhere** an accessible valve is needed!

## Engineered for Versatility

ServiceBox products work together as a system. The system can be easily adapted for cities/jurisdictions having different, but specific requirements for water supply or valve placement.




A 'Skip Cavity'
All ServiceBox products are approved for use in fire-rated walls. In fire-rated applications, there must be a 'skip cavity' separating stud cavities that have boxes installed in them
Hot Water to Dwelling
Cold Water to Dwelling
ServiceBox™
Water Heater Box
A
Water Softener Supply
Softened Water
Water Heater Supply
ServiceBox™
Water Softener Box
Brine discharge line

# Water Service Valve Box

## Applications

The water service valve box is perfect for use as a main shut-off for the dwelling, or install it anywhere a single, accessible valve is needed in the system.

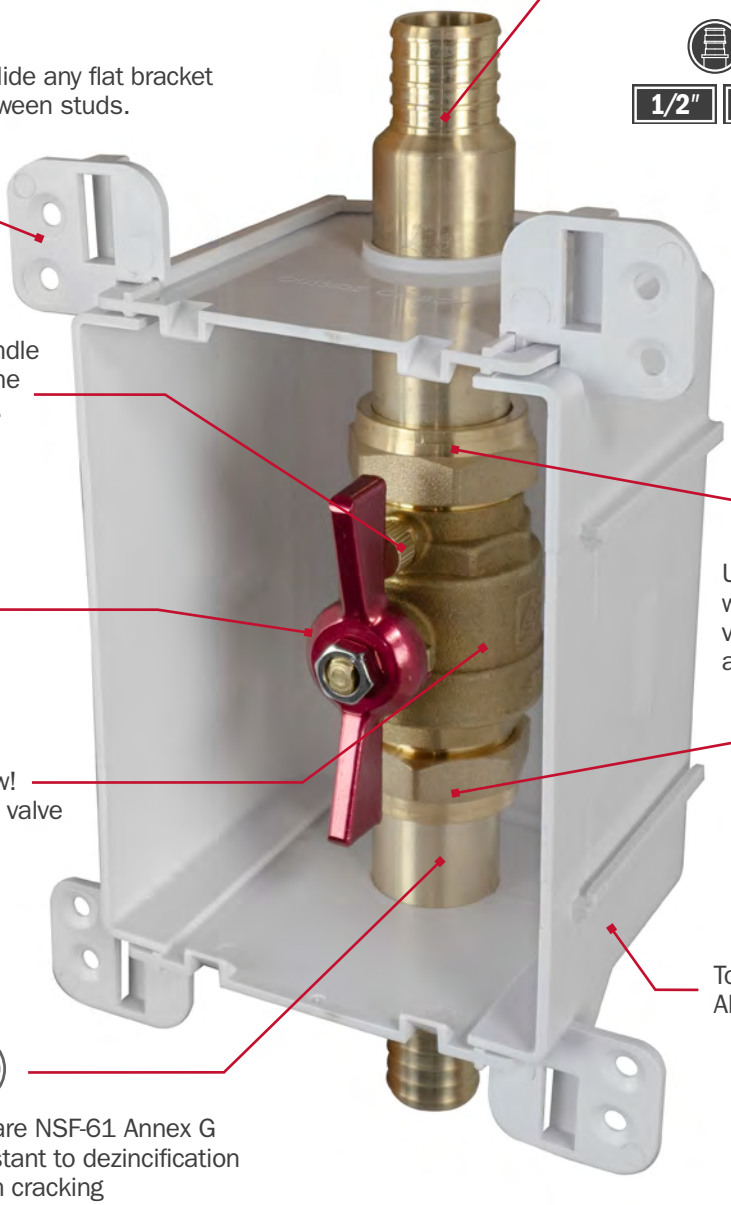
Approved for fire-rated applications, it can be installed in shared or rated walls with no need to fire-caulk or box around with drywall

Multiple connection types and sizes available:

PUSH CPVC

1/2" 3/4" 1" 1-1/4"

Box fastens securely to stud, or slide any flat bracket through the tracks to position between studs.



Capped outlet port behind handle makes it easy to drain-down the system when valve is shut off.
(Push 3/8" ID vinyl tube over threads to control/direct the drain-down)

Anodized aluminum T-handle is easy to operate and corrosion-resistant

Union connections with EPDM seals make valves easily repairable and replaceable

Full Flow! 600WOG valve

Tough, durable, ABS box material

DZR LEAD FREE COMPLIANT

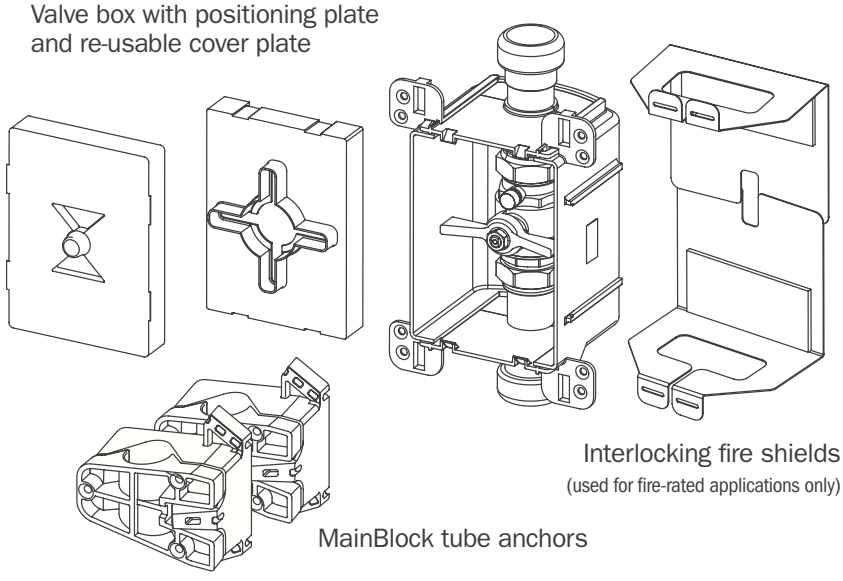
All brass materials are NSF-61 Annex G compliant, and resistant to dezincification and stress-corrosion cracking

## Labor Savings

Use the online cost analysis form to find out how much *$$$* you can save, using the ServiceBox.


## What's Included:

Valve box with positioning plate and re-usable cover plate



Interlocking fire shields
(used for fire-rated applications only)

MainBlock tube anchors

**Finish frame (item no. 687-1F) sold separately.**
Buy frames separately. Later, when you need them. Not at rough-in. You don't need them at rough-in. They'll just get lost.

## Protected

The Positioning Plate keeps the valve securely in place and helps prevent 'unauthorized' operation – can remain installed after finish, as desired.

Cover Plate installs over Positioning Plate. Protects the valve and inner box from damage, debris, paint, etc. Removes when frames are installed – also works with all OxBox™ access boxes.


### The BLUE Box

Color-coded boxes with wrap-around labels.
Easy to stock, easy to identify. Provides a complete, 'Grab & Go' package.

# Pressure-Reducing Valve Box

## Applications

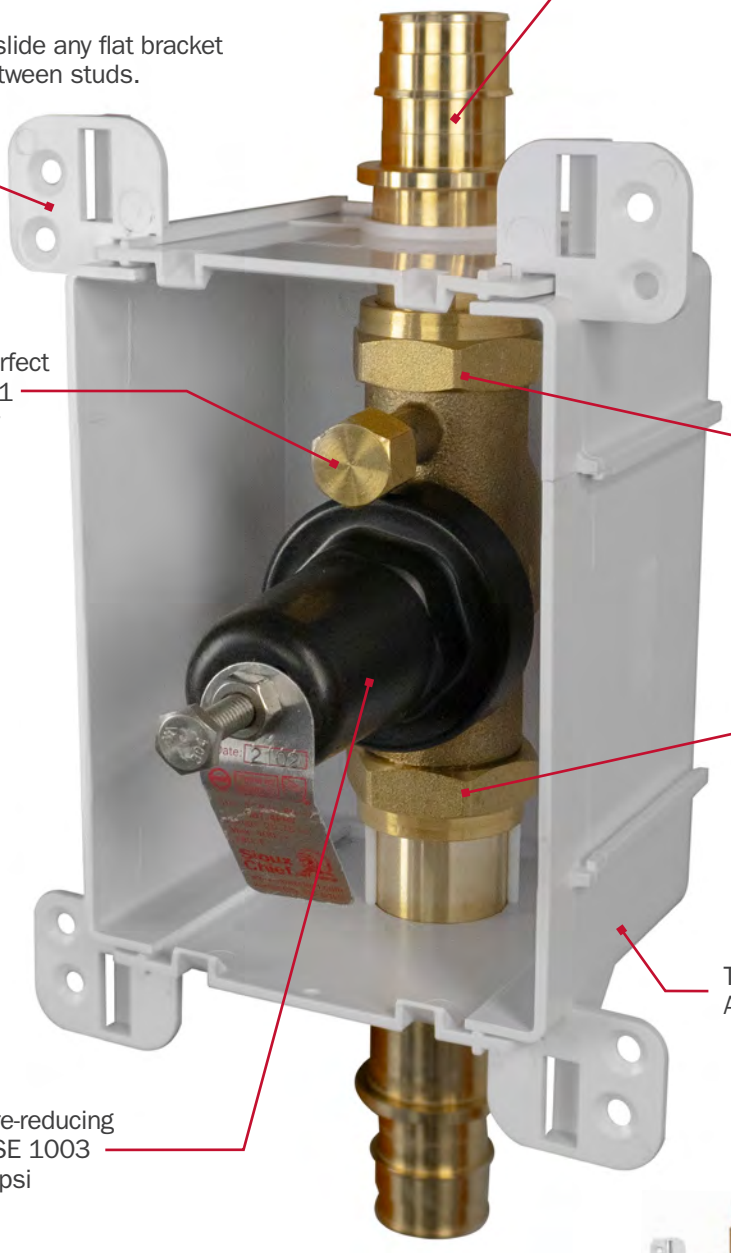
The pressure-reducing valve box is typically installed downstream of the main shut-off and helps protect fixtures from excessive pressures coming in from the water service.

Approved for fire-rated applications, it can be installed in shared or rated walls with no need to fire-caulk or box around with drywall

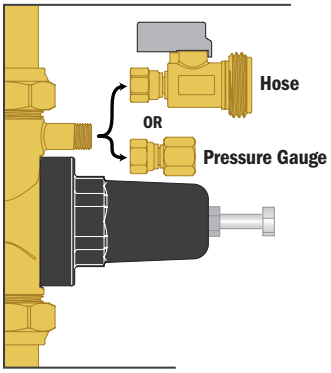
Multiple connection types and sizes available:

3/4" 1"

Box fastens securely to stud, or slide any flat bracket through the tracks to position between studs.



Optional capped outlet port is perfect for installing the 131-G0Y3HR101 ball valve for hose connection, or the 930-46101001 adapter for hooking up a pressure gauge.




Union connections with EPDM seals make valves easily repairable and replaceable

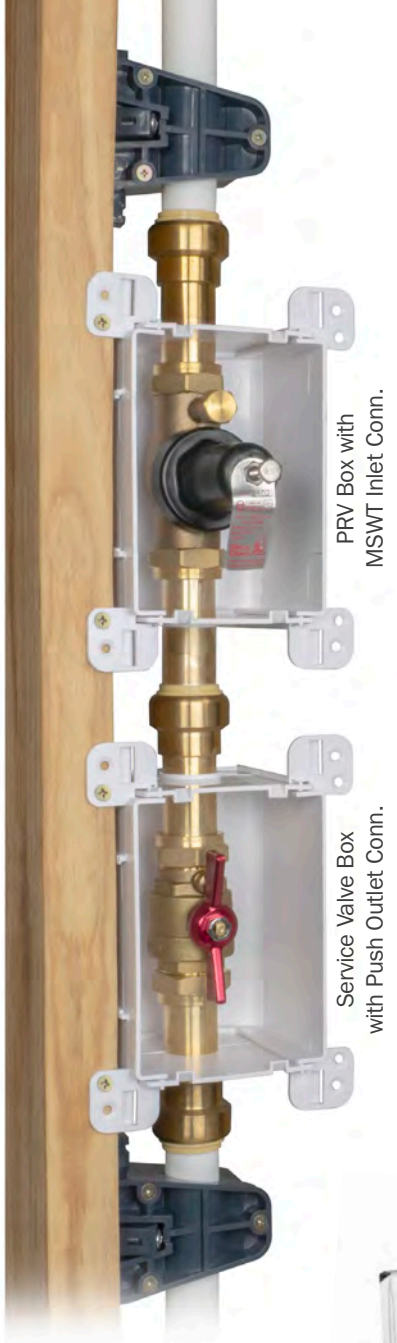
Tough, durable, ABS box material

Fully adjustable pressure-reducing valve complies with ASSE 1003 and is factory set to 60psi

All boxes ship with a PVC 'jumper' installed, and the PRV boxed separately, for later installation

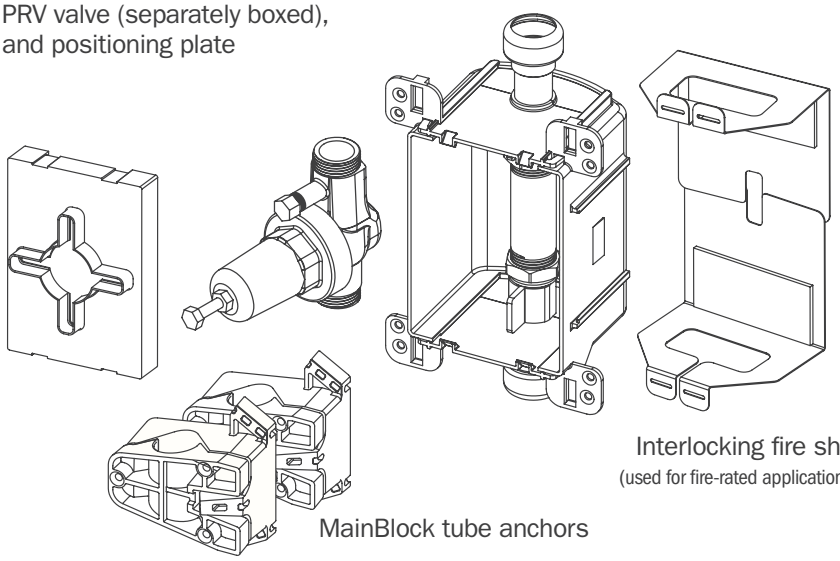
## Labor Savings

Use the online cost analysis form to find out how much *$$$* you can save, using the ServiceBox.




# What's Included:

Valve box with PVC 'jumper' installed,
PRV valve (separately boxed),
and positioning plate



Interlocking fire shields
(used for fire-rated applications only)

MainBlock tube anchors

**Finish frame (item no. 687-1F) sold separately.**

Buy frames separately. Later, when you need them. Not at rough-in. You don't need them at rough-in. They'll just get lost.

## Connect in Line

The PRV box can be installed independently, or 'daisy-chained' directly downstream of a water service valve box. PRV boxes with MSWT inlet connections are perfect for connecting in line with water service valve boxes with Push outlets.


## The **BLACK** Box

Color-coded boxes with wrap-around labels.
Easy to stock, easy to identify. Provides a complete,
'Grab & Go' package.

# Water Heater Access Box

## Applications

Two types of water heater access boxes are available, depending on the application, and preferred installation method. The 'Flow-Through' model includes a bypass on the cold outlet (behind the valve), and the 'Termination' model includes a single, valved, cold-side elbow outlet, and a single hot-side elbow inlet.

Approved for fire-rated applications, it can be installed in shared or rated walls with no need to fire-caulk or box around with drywall

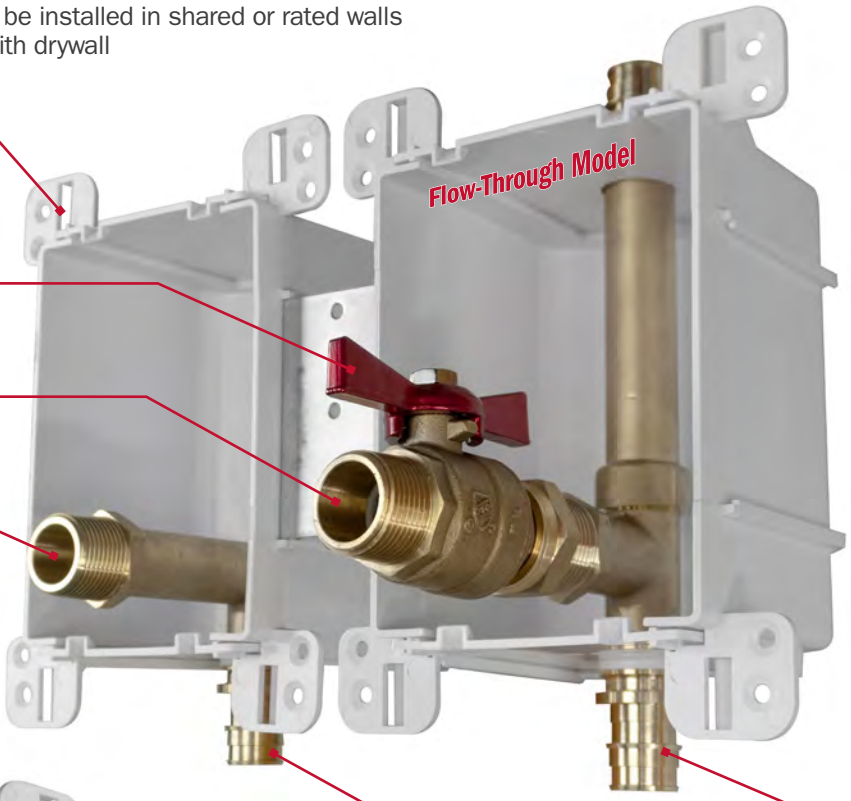
Box fastens securely to stud, or slide any flat bracket through the tracks to position between studs.

Anodized aluminum T-handle is easy to operate and corrosion-resistant

Full Flow! 600WOG valve

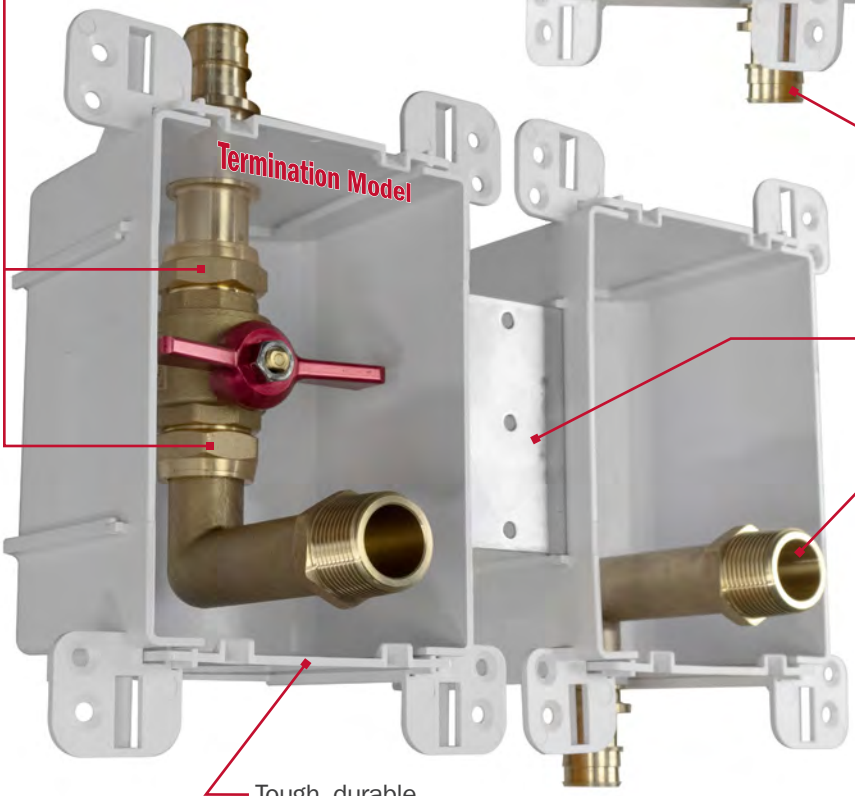
Hot-side inlets are capped for pressure test

Union connections with EPDM seals make valves easily repairable and replaceable




Multiple connection types:


3/4"




Steel box clip for stud mount

Brass cross kits make it easy to connect tankless water heaters, expansion tanks, mixing valves, and other accessories.

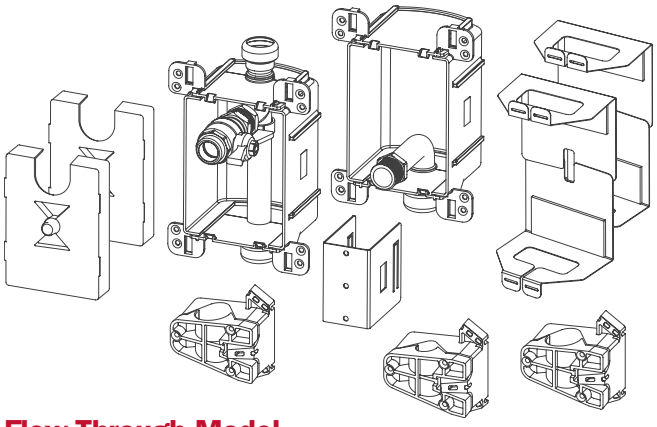
See pg 15 for more information

Tough, durable, ABS box material

### Labor Savings

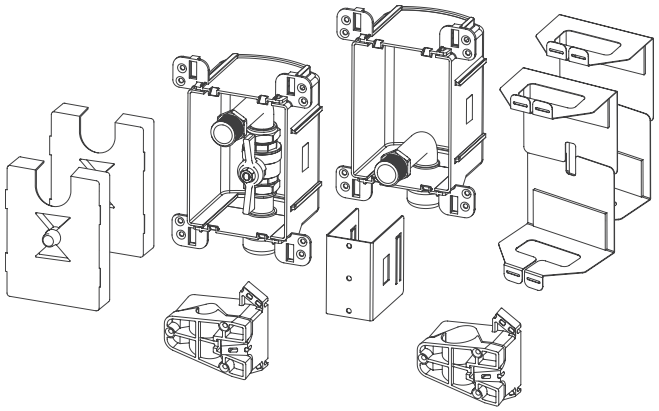
Use the online cost analysis form to find out how much $$$ you can save, using the ServiceBox.

# What's Included:



## Flow-Through Model

One access box with valved, flow-through, cold-side outlet, one access box with hot-side elbow inlet, interlocking fire shields, re-usable cover plates, stud-mounting box clip, and MainBlock tube anchors.



## Termination Model

One access box with valved, cold-side elbow outlet, one access box with hot-side elbow inlet, interlocking fire shields, reusable cover plates, stud-mounting box clip, and MainBlock tube anchors.

**Finish frame (item no. 687-1F) sold separately.**

## Mount Over Stud

Steel box clip locks boxes together and allows them to mount over a stud with a single screw for quick and easy rough-ins.

## ... Or Not

Boxes can also be mounted between studs on a flat bracket, or separately, in any position or orientation – whatever best suits your application

## Cover Plates Included

Re-usable cover plates (2) protect the fitting, valve and inner box from damage, debris, paint, etc. Remove when frames are installed.


## The RED Box

Color-coded boxes with wrap-around labels. Easy to stock, easy to identify. Provides a complete, 'Grab & Go' package.

# Dual-Valve Access Box

## Applications

Works well as a secondary shut-off for hot/cold mains, remote bathrooms or for separating lines using a wye splitter.

Approved for fire-rated applications, it can be installed in shared or rated walls with no need to fire-caulk or box around with drywall

Box fastens securely to stud, or slide any flat bracket through the tracks to position between studs.

Multiple connection types and sizes available:

1/2" 3/4"

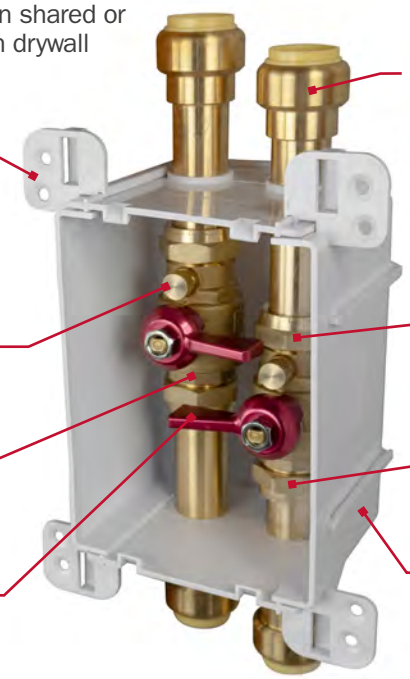
Capped outlet port behind handle makes it easy to drain-down the system when valve is shut off.
(Push 3/8" ID vinyl tube over threads to control/direct the drain-down)

Union connections with EPDM seals make valves easily repairable and replaceable

Full Flow! 600WOG valve

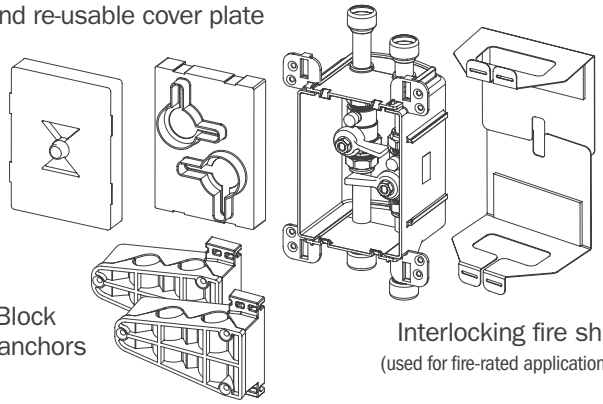
Anodized aluminum T-handle

Tough, durable, ABS box material



## What's Included:

Valve box with positioning plate and re-usable cover plate



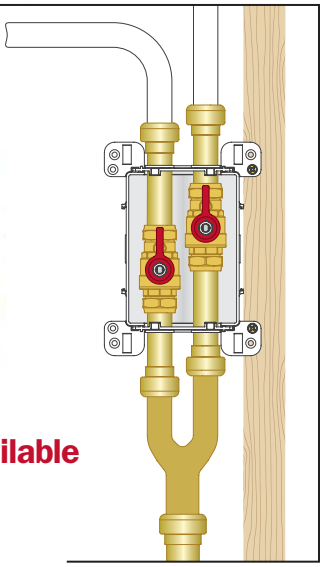
MainBlock tube anchors

Interlocking fire shields
(used for fire-rated applications only)

**Finish frame sold separately.**
**(Item no. 687-1F)**

## Wye Splitters Available

3/4" x 3/4" x 3/4"
or 1" x 3/4" x 3/4"




## Labor Savings

Use the online cost analysis form to find out how much $$$ you can save, using the ServiceBox.

## The GREEN Box

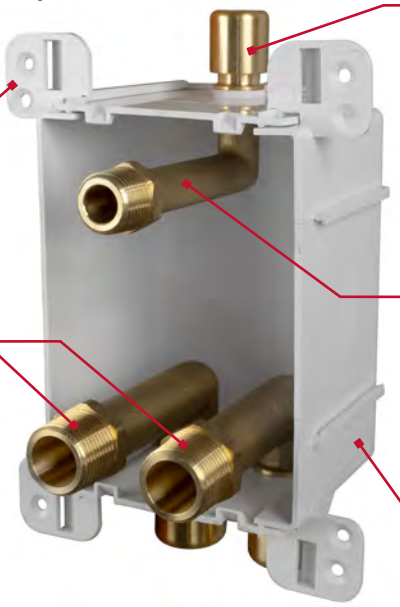
Color-coded boxes with wrap-around labels.
Easy to stock, easy to identify. Provides a complete, 'Grab & Go' package.

# Water Softener Access Box

## Applications

Replace costly, site-fabricated assemblies and loops with a single, easy-to-install product. Provides Hard-Water-In, Soft-Water-Out, and brine discharge connections for water softener hookup in a clean, compact access box.

Approved for fire-rated applications, it can be installed in shared or rated walls with no need to fire-caulk or box around with drywall



Multiple connection types and sizes available:

PUSH CPVC

3/4" 1"

Box fastens securely to stud, or slide any flat bracket through the tracks to position between studs.

1/2" discharge line runs to convenient disposal location

Optional 3/4" or 1" MIP thread outlets provide ample flow to and from the unit

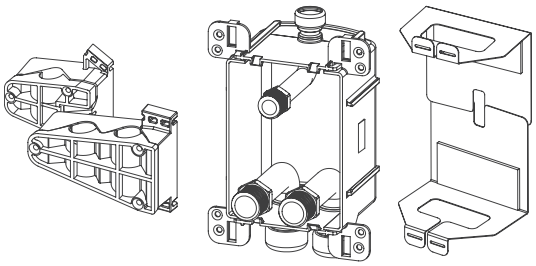
Outlets are capped and ready for pressure test

Tough, durable, ABS box material

## What's Included:

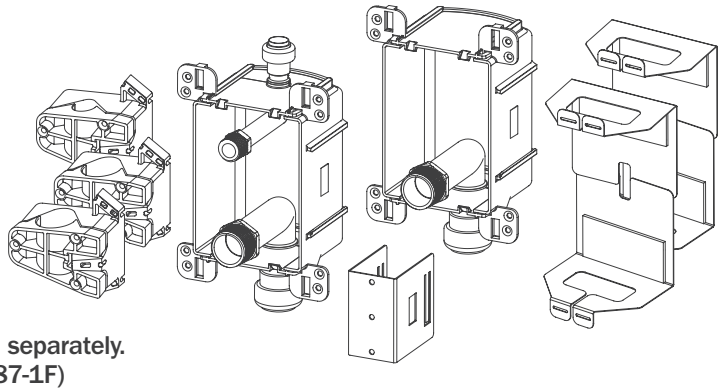
### 3/4" Model - One Box

Access box with brass elbows, interlocking fire shields, and MainBlock tube anchors



### 1" Model - Two Boxes

One access box with two brass elbows, one access box with one brass elbow, interlocking fire shields, stud-mounting box clip, and MainBlock tube anchors



**Finish frame sold separately. (Item no. 687-1F)**


### Labor Savings

Use the online cost analysis form to find out how much $$$ you can save, using the ServiceBox.

### The GRAY Box

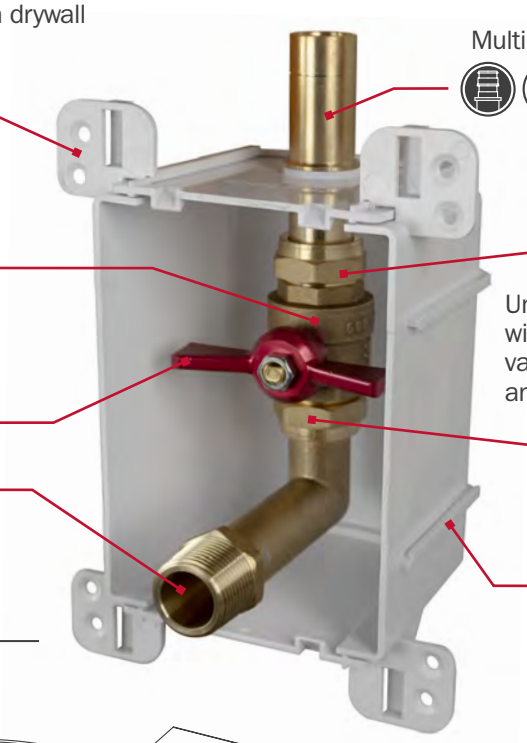
Color-coded boxes with wrap-around labels. Easy to stock, easy to identify. Provides a complete, 'Grab & Go' package.

# Valve Termination Box

## Applications

Perfect for any application where you need valved water service – in the garage/barn/shed, or for appliance connection.

Approved for fire-rated applications, it can be installed in shared or rated walls with no need to fire-caulk or box around with drywall



Multiple connection types:

3/4"

Box fastens securely to stud, or slide any flat bracket through the tracks to position between studs.

Full Flow! 600WOG valve

Anodized aluminum T-handle

3/4" MIP thread outlet provides ample flow and versatile connection options

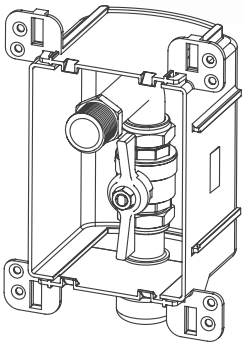
Capped and ready for test

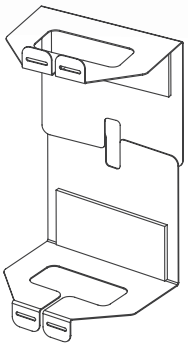
Union connections with EPDM seals make valves easily repairable and replaceable

Tough, durable, ABS box material

## What's Included:

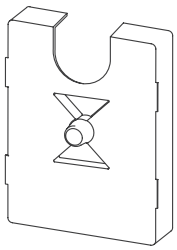
Access box with valved, brass, elbow outlet

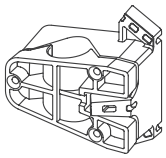




Interlocking fire shields
(used for fire-rated applications only)

Reusable cover plate





MainBlock tube anchor

**Finish frame (item no. 687-1F) sold separately.**

Buy frames separately. Later, when you need them. Not at rough-in. You don't need them at rough-in. They'll just get lost.


## Labor Savings

Use the online cost analysis form to find out how much $$$ you can save, using the ServiceBox.

## The ORANGE Box

Color-coded boxes with wrap-around labels.
Easy to stock, easy to identify. Provides a complete, 'Grab & Go' package.

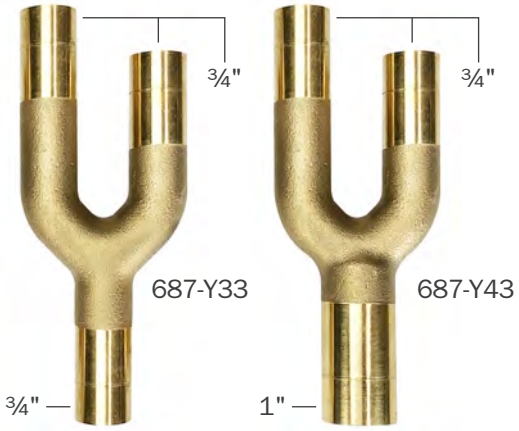
# ServiceBox Accessories

687-1F

696-EX
696-SC

## Frame/Extension/Cover

Beveled frame for a finished look. Frame extensions (for multiple drywall layers) and finish cover available.




## Wye Splitters

Conveniently splits a single line into the Dual-Valve box's separate inlet connections. Perfect for splitting a cold water line upstream of a water softener or heater.

## Brass Crosses & Cross Kits

Solid brass cross components replace multiple fittings and solder joints.

Kits include full-port ball valves with large, Easy-Turn handles

Consistent, repeatable installations are clean, solid, and professional-looking

Perfect for tankless heater installations. Makes connecting lines for routine delime/descale process much easier – valves isolate tank, while crosses provide convenient hose connections.

**Water Heater Accessories**
Scan for Brochure

FIP Swivel Fittings with EPDM Seals

Save Time – Reduce Liability!

131-G0Y3HR101

117-03
Vacuum breaker

## Ball Valve

1/4" swivel compression x MHT ball valve. Connects to optional outlet port on PRV valves to connect garden hose for drain down or other/misc. needs.

930-46101001

356-100PK1
100PSI Pressure gauge

## Gauge Adapter

1/4" swivel compression x 1/4" FIP. Connects to optional outlet port on PRV valves for easy connection of gauge downstream of PRV for pressure check.

## *... for more information on ServiceBox™...*

### Buying Guide
Buying information for the complete ServiceBox offering

### Installation Instructions
For both standard applications, and in fire-rated walls

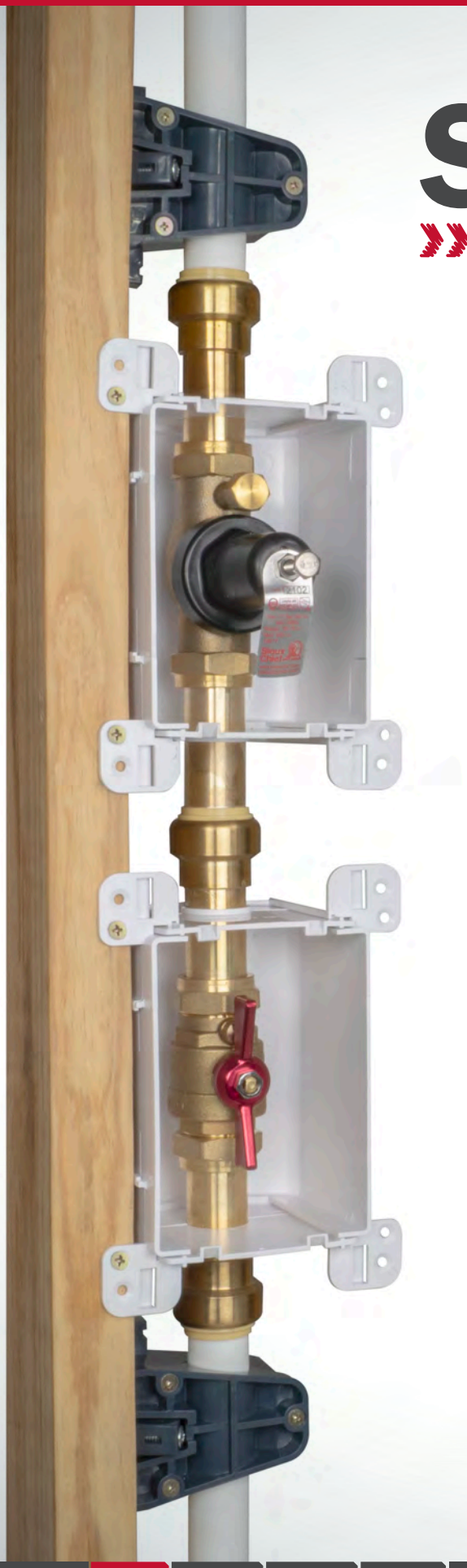
# TAKE THE FIELD.

All brass materials are NSF-61 Annex G compliant, and resistant to dezincification and stress-corrosion cracking



14940 Thunderbird Road
Kansas City, MO 64147
**P** 1.800.821.3944
**F** 1.800.758.5950

Sioux Chief



# ServiceBox™

## Buying Guide

### Labor-Saving
Installs quickly and mounts securely.

Reduces time spent on the job at rough-in and finish.

Reduce leaks, call-backs and liability.

### Simple
ONE product replaces multiple items – Less mess, less waste.

Simple packaging – everything you need is included.

Reduces buying, stocking, handling, etc.

### Serviceable
Union connections with EPDM seals.

All valves are easily repairable and replaceable.

### Certified
Full Flow - ***600WOG*** valves.
Listed. Certified. Compliant.

| | ITEM NO | DESCRIPTION | MIN QTY | CASE QTY |
|---|---|---|---|---|
| **Single-Valve ServiceBox™** | | | | |
|  | 687-2CD | 1/2" CPVC Socket X 1/2" CPVC Socket | 1 | 9 |
| | 687-3CD | 3/4" CPVC Socket X 3/4" CPVC Socket | 1 | 9 |
| | 687-4CD | 1" CPVC Socket X 1" CPVC Socket | 1 | 9 |
| | 687-5CD | 1-1/4" CPVC Socket X 1-1/4" CPVC Socket | 1 | 9 |
| | 687-2PD | 1/2" MSWT/Press/Push × 1/2" MSWT/Press/Push | 1 | 9 |
| | 687-3PD | 3/4" MSWT/Press/Push × 3/4" MSWT/Press/Push | 1 | 9 |
| | 687-4PD | 1" MSWT/Press/Push × 1" MSWT/Press/Push | 1 | 9 |
| | 687-2QD | 1/2" Push (CTS) Socket X 1/2" Push (CTS) Socket | 1 | 9 |
| | 687-3QD | 3/4" Push (CTS) Socket X 3/4" Push (CTS) Socket | 1 | 9 |
| | 687-4QD | 1" Push (CTS) Socket × 1" Push (CTS) Socket | 1 | 9 |
| | 687-5QD | 1-1/4" Push (CTS) Socket X 1-1/4" Push (CTS) Socket | 1 | 9 |
| | 687-2WD | 1/2" PEX F1960 × 1/2" PEX F1960 | 1 | 9 |
| | 687-3WD | 3/4" PEX F1960 X 3/4" PEX F1960 | 1 | 9 |
| | 687-4WD | 1" PEX F1960 X 1" PEX F1960 | 1 | 9 |
| | 687-5WD | 1-1/4" PEX F1960 X 1-1/4" PEX F1960 | 1 | 9 |
| | 687-2XD | 1/2" PEX F1807 X 1/2" PEX F1807 | 1 | 9 |
| | 687-3XD | 3/4" PEX F1807 X 3/4" PEX F1807 | 1 | 9 |
| | 687-4XD | 1" PEX F1807 X 1" PEX F1807 | 1 | 9 |
| | 687-5XD | 1-1/4" PEX F1807 X 1-1/4" PEX F1807 | 1 | 9 |
| **Single-Valve ServiceBox™ - Mixed Connection** | | | | |
|  | 687-3CWD | 3/4" CPVC Socket X 3/4" PEX F1960 | 1 | 9 |
| | 687-4CWD | 1" CPVC Socket X 1" PEX F1960 | 1 | 9 |
| | 687-3CXD | 3/4" CPVC Socket X 3/4" PEX F1807 | 1 | 9 |
| | 687-4CXD | 1" CPVC Socket X 1" PEX F1807 | 1 | 9 |
| | 687-3SQD | 3/4" Push (IPS) Socket X 3/4" Push (CTS) Socket | 1 | 9 |
| | 687-4SQD | 1" Push (IPS) Socket X 1" Push (CTS) Socket | 1 | 9 |
| | | | | |
| **Pressure Reducing Valve ServiceBox™** | | | | |
|  | 687-3RPQ | 3/4" MSWT/Press/Push × 3/4" Push (CTS) Socket | 1 | 9 |
| | 687-4RPQ | 1" MSWT/Press/Push × 1" Push (CTS) Socket | 1 | 9 |
| | 687-3RQQ | 3/4" Push (CTS) Socket X 3/4" Push (CTS) Socket | 1 | 9 |
| | 687-4RQQ | 1" Push (CTS) Socket X 1" Push (CTS) Socket | 1 | 9 |
| | 687-3RWW | 3/4" PEX F1960 X 3/4" PEX F1960 | 1 | 9 |
| | 687-4RWW | 1" PEX F1960 X 1" PEX F1960 | 1 | 9 |
| | 687-3RXX | 3/4" PEX F1807 X 3/4" PEX F1807 | 1 | 9 |
| | 687-4RXX | 1" PEX F1807 X 1" PEX F1807 | 1 | 9 |
| **Pressure Reducing Valve ServiceBox™ - with Port** | | | | |
|  | 687-3RQQD | 3/4" Push (CTS) Socket - with Port | 1 | 9 |
| | 687-4RQQD | 1" Push (CTS) Socket X 1" Push (CTS) Socket - with Port | 1 | 9 |
| | 687-3RWWD | 3/4" PEX F1960 X 3/4" PEX F1960 - with Port | 1 | 9 |
| | 687-4RWWD | 1" PEX F1960 X 1" PEX F1960 - with Port | 1 | 9 |
| | 687-3RXXD | 3/4" PEX F1807 X 3/4" PEX F1807 - with Port | 1 | 9 |
| | 687-4RXXD | 1" PEX F1807 X 1" PEX F1807 - with Port | 1 | 9 |
| | | | | |
| **Dual-Valve ServiceBox™** | | | | |
|  | 687-2QDT | 1/2" Push (CTS) X 1/2" Push (CTS) Socket | 1 | 9 |
| | 687-3QDT | 3/4" Push (CTS) X 3/4" Push (CTS) Socket | 1 | 9 |
| | 687-2WDT | 1/2" PEX F1960 X 1/2" PEX F1960 | 1 | 9 |
| | 687-3WDT | 3/4" PEX F1960 X 3/4" PEX F1960 | 1 | 9 |
| | 687-2XDT | 1/2" PEX F1807 X 1/2" PEX F1807 | 1 | 9 |
| | 687-3XDT | 3/4" PEX F1807 X 3/4" PEX F1807 | 1 | 9 |
| | | | | |

| | ITEM NO | DESCRIPTION | MIN QTY | CASE QTY |
|---|---|---|---|---|
| **Water Softener ServiceBox™** | | | | |
|  | 687-332CB | 3/4" CPVC Socket (2) with 1/2" CPVC Socket (1) | 8 | 8 |
| | 687-332QB | 3/4" Push (CTS) Socket (2) with 1/2" Push (CTS) Socket (1) | 8 | 8 |
| | 687-442QB | 1" Push (CTS) Socket (2) with 1/2" Push (CTS) Socket (1) | 1 | 6 |
| | 687-332WB | 3/4" F1960 (2) with 1/2" F1960 (1) | 8 | 8 |
| | 687-442WB | 1" F1960 (2) with 1/2" F1960 (1) | 1 | 6 |
| | 687-332XB | 3/4" F1807 (2) with 1/2" F1807 (1) | 8 | 8 |
| | 687-442XB | 1" F1807 (2) with 1/2" F1807 (1) | 1 | 6 |
| **Water Heater ServiceBox™ - Flow-Through Style** | | | | |
|  Flow-Through | 687-3CH | 3/4" CPVC Socket | 1 | 6 |
| | 687-3PH | 3/4" MSWT/Press/Push | 1 | 6 |
| | 687-3QH | 3/4" Push (CTS) Socket | 1 | 6 |
| | 687-3WH | 3/4" PEX F1960 | 1 | 6 |
| | 687-3XH | 3/4" PEX F1807 | 1 | 6 |
| | | | | |
| | | | | |
| **Water Heater ServiceBox™ - Termination Style** | | | | |
|  Termination | 687-3CH2 | 3/4" CPVC Socket | 1 | 6 |
| | 687-3PH2 | 3/4" MSWT/Press/Push | 1 | 6 |
| | 687-3QH2 | 3/4" Push (CTS) Socket | 1 | 6 |
| | 687-3WH2 | 3/4" PEX F1960 | 1 | 6 |
| | 687-3XH2 | 3/4" PEX F1807 | 1 | 6 |
| | | | | |
| | | | | |
| **Water Heater ServiceBox™ - Accessories** | | | | |
|  | 648-3SM | 600WOG Brass Ball Valve - 3/4" FIPS x 3/4" MIP | 5 | 5 |
| | 687-3SFMH | Cross Adapter - 3/4" FIP Swivel X 3/4" FIP X 3/4" MIP X 3/4" MHT with Cap | 5 | 5 |
| | 687-3SMFH | Cross Adapter - 3/4" FIP Swivel X 3/4" MIP X 3/4" FIP X 3/4" MHT with Cap | 5 | 5 |
| | 687-3SMMH | Cross Adapter - 3/4" FIP Swivel X 3/4" MIP X 3/4" MIP X 3/4" MHT with Cap | 5 | 5 |
| | 687-3SMKIT | Cross Adapter Kit - Includes: 687-3SM / 687-3SMFH / 687-3SMMH | 5 | 5 |
| | 687-3SMKIT2 | Cross Adapter Kit - Includes: (2) 687-3SM / 687-3SMFH / 687-3SMMH | 5 | 5 |
| **Valve Termination ServiceBox™** | | | | |
|  | 687-3CV | 3/4" CPVC Socket x 3/4" MIP Outlet | 8 | 8 |
| | 687-3PV | 3/4" MSWT/Press/Push x 3/4" MIP Outlet | 8 | 8 |
| | 687-3QV | 3/4" Push (CTS) x 3/4" MIP Outlet | 8 | 8 |
| | 687-3WV | 3/4" PEX F1960 x 3/4" MIP Outlet | 8 | 8 |
| | 687-3XV | 3/4" PEX F1807 x 3/4" MIP Outlet | 8 | 8 |
| | | | | |
| | | | | |
| **ServiceBox™ - Accessories** | | | | |
|  | 131-G0Y3HR101 | 1/4-Turn, 1/4" Swiv. Comp. X 3/4" MHT, Brass, 1/Bag | 5 | 60 |
| | 930-46101001 | Gauge Adapter - 1/4" Swiv Comp. X 1/4" FIP, 1/Bag | 5 | 60 |
| | 687-Y33 | Wye Splitter - 3/4" Inlet (1) X 3/4" Outlets (2), 1/Bag | 1 | 9 |
| | 687-Y43 | Wye Splitter - 1" Inlet (1) X 3/4" Outlets (2), 1/Bag | 1 | 9 |
| | 356-100PK1 | 0–100 PSI Pressure Gauge 1 Lb. Grad, 1/Clamshell | 1 | 10 |
| | 687-1F | Finish Frame - Fits All ServiceBox™ Access Boxes | 10 | 10 |
| | 696-EX | Frame Extension - For Multiple Layers of Drywall | 10 | 10 |
| | 696-SC | Solid Frame Insert - Fits Inside Finish Frame | 10 | 10 |
| | 307-687 | Valve Handle Tool - For all ServiceBox™ Valves, 1/Bag | 1 | 6 |

# TAKE THE FIELD.

All brass materials are NSF-61 Annex G compliant, and resistant to dezincification and stress-corrosion cracking

www.siouxchief.com

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Kansas City, MO 64147
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# FAQs



**Why was the ServiceBox developed?**
Valves need access. Valves are, and have been offered in access boxes at the 'point of use' for years - think washing machine boxes, icemaker boxes, stop valve boxes at the lavatory or toilet, etc. Additionally, contractors have used access panels, meter boxes and other methods to provide access to valves after drywall/finish. The ServiceBox system provides a simple, well-designed, labor-saving, certified solution for accessible valves in applications upstream of the point of use.

**Why Should I buy from Sioux Chief?**
Sioux Chief has been selling valves and innovative Access solutions for years. We have a ***LONG*** history in the plumbing industry and we are here for the long haul. We are here to support the product, the plumber, and the installation. Let our warranty and our quality be your calling card for the job and the application.

**What are some of the applications the ServiceBox system was designed for?**

1. A single-valve access box. Offered in 1/2" – 1-1/4" connections.
   The single-valve box is perfect for use as a main shut-off for the dwelling, or install it anywhere a single, accessible valve is needed in the system.
2. A pressure-reducing valve access box. Offered in 3/4" and 1" connections.
   The PRV box is typically installed downstream of the main shut-off and helps protect fixtures from excessive pressures coming in from the water service.
3. A dual-valve access box. Offered in 1/2" and 3/4" connections
   This model works well as a secondary shut-off for hot/cold mains, remote bathrooms or for separating lines using a wye splitter.
4. A water-softener access box. Offered in 3/4" (single-box design) and 1" (dual-box design) connections.
   This model replaces costly, site-fabricated assemblies and loops with a single, easy-to-install product. Provides Hard-Water-In, Soft-Water-Out, and brine discharge connections for water softener hookup in a clean, compact access box.
5. A water heater access box. Offered with 3/4" connections.
   Models available in 'Flow-Through' or 'Termination' designs, depending on the application, and preferred installation method. Flow-Through models include a bypass on the cold outlet (behind the valve), while Termination models include a single, valved, cold-side elbow outlet, and a single hot-side elbow inlet.
6. A Valve termination box. Offered with a single 3/4" valved outlet.
   This model is perfect for any application where you need valved water service – in the garage/barn/shed, or for appliance connection.

Note - While these are the primary applications the product was designed for, the ServiceBox system can be used for ANY application where an accessible valve would be beneficial.

**Is the ServiceBox properly certified?**
Yes. All ServiceBox products are listed and approved. Every valve and each component has been tested and listed. All box assemblies have been certified and listed by IAPMO to applicable product standards.

# FAQs



**Is the ServiceBox code compliant?**
Yes. All ServiceBox valves are ***FULL-PORT*** valves. Full-Port = Full Flow. Many water service valves used today are standard port, which are 'illegal' per code requirements for use at water heaters and water service.
*Don't get Tagged … Go with ServiceBox.*

**If the valve gets fouled or goes bad, can it be replaced?**
Of course. All ServiceBox valves have swivel connections to the 'shank', making it easy to remove and replace the valve – if you ever need to.

**What about installations in fire-rated walls?**
No problem. All ServiceBox models come ***STANDARD*** with two steel interlocking fire shields with intumescent pads. All ServiceBox models can be installed into a fire-rated wall and carry both 1-Hour and 2-Hour ratings. You can install a single box in a stud bay, two boxes stacked vertically in a stud bay, two boxes straddling a stud, or two boxes mounted between studs. Each configuration has been tested. Check spec sheets and installation instructions for the exact listing per box layout and for any stipulations to the installation.

**Another Frame…Really?**
Nope! The ServiceBox system uses the same frame as the OxBox system - Same frame extensions, same frame inserts, same accessories like bars and box clips. So, you may be buying/using the frames and accessories you need for ServiceBox already. To boot, the frame is offered completely separate. Not purchased until it is needed…..MONTHS after initial box installation. What does this mean to you? You won't lose it, it won't get lost on the job, it won't get damaged, it won't get lost on the job trailer and you won't have to repurchase frames. Save $$ and keep the product looking good.

**Will the ServiceBox be rigid/sturdy enough to hold up during construction?**
Absolutely. This was one of the primary design requirements for the ServiceBox system. Boxes are made from durable ABS material - impact-resistant, very tough. All models also include Sioux Chief's exclusive MainBlock™ tube anchors, which mount to the stud and grip the supply tubing very securely to prevent movement, even during valve operation. Every box has multiple mounting options, including integral tabs to secure the box directly to a stud. For installing between studs, boxes are also designed with 'tracks' at the top and bottom. A standard, flat steel bracket slides into the tracks to position boxes between studs, or for additional support for the top/bottom of the box

**If it gets installed at Rough-in, won't it get covered with jobsite debris, dust/mud and paint?**
Negative. All ServiceBox models include ABS debris covers to protect the valve and inner box from damage, debris, paint, etc. The cover plates get replaced with frames at finish – they also work with all OxBox™ access boxes. The ServiceBox (except Water Heater and Water Softener models) also includes a valve 'Positioning Plate', which keeps the valve securely in place and helps prevent 'unauthorized' operation. Positioning plates can remain installed after finish, as desired. Water heater and water softener models include caps on the MIP outlets, for protection and for testing.

# FAQs



**Quality Matters! Is the ServiceBox a quality product?**
100%. Like all 'Sioux Chief Original' products, the ServiceBox was designed around the concept of quality. As mentioned, each box is fully certified, uses only full flow, full-port valves, carries 'through-penetration' fire ratings, and includes one of the most secure tube anchoring systems on the market. Below are a few more ways we've designed quality into the ServiceBox product:

Boxes are made from pre-colored white, high-impact, fire-rated ABS. This impact-resistant material is less likely to become brittle in cold environments.

- Valve handles are made from anodized aluminum (a first for plumbing valve handles). Handles are large, easy to grasp, and easy to operate. They are strong and corrosion-resistant.
- The valves and valve shanks are made from No Lead Compliant brass. This material is resistant to dezincification and stress-corrossion cracking.
- The valve shanks were designed to be long enough to make PEX or other supply piping easy to connect.
- Valves are connected to valve shanks via swivel union, for easy removal/repair – not that we think that will be necessary, since everything has been designed to last for the lifetime of the system.
- Swivel unions employ EPDM sealing gaskets – a much better sealing material compared to other gaskets in the industry. Sioux Chief also offers more rigid LDPE gaskets for easier re-assembly and robust connection.

**Will the box look garish or ugly after finish?**
Of course not. In fact, given the consistent box size and internal materials (brass valves,fittings, red handles), using the ServiceBox helps standardize layouts, making installations easier and more repeatable. The entire house can get the same 'treatment' and have the same box/frame from water service, to PRV, to water softener, to water heater, to washing machine, to icemaker, to lavs, to toilets, and even air-admittance valves.
Same professional-looking box, same handsome, beveled* frame.
* A look that nearly all other manufacturers have copied.

**Won't the PRV get fouled if installed during rough-in?**
Nope. All PRV models ship with a PVC 'jumper' nipple installed. The jumper is then replaced by the PRV (which is separately boxed and included in the package) at finish. This means the PRV can be kept safely off the job, and not installed at rough. When the appropriate time comes to install the PRV, simply loosen the swivel union nuts, remove the PVC jumper, place the LDPE sealing gaskets (included with PRVs) into the shanks, position the PRV in place, and tighten the swivel union nuts.

**I'm currently using boiler drains – Can I drain-down my system with ServiceBox?**
Yes. The valves in all ServiceBox single-valve and dual-valve models are designed with a forward-facing drain port. The threaded/capped port is situated behind the valve handle, and can be accessed when the valve is turned off.
***Tip:*** If needed, a 3/8" ID vinyl tube can be pushed over the port threads to help control/direct the draining water.

Additionally, PRV models are available with an optional port, on the downstream side of the valve. This port can be connected to a 1/4-Turn boiler drain valve (131-G0Y3HR101) offered in the ServiceBox accessories section. If installing a pressure gauge is preferred, connect the gauge adapter (930-46101001) to the PRV port.
Want both a boiler drain and a gauge? Connect the boiler drain valve (above) to the port and use a hose thread connection gauge (360-300PK1) on the boiler drain outlet.

# FAQs



**Can the ServiceBox accommodate a Water Meter?**

To address the installation of a water meter, Sioux Chief suggests using a ServiceBox water heater model, with the water meter elbow-connected to the 3/4" MIP outlets at the necessary height a water meter may require. That height varies per water meter type and manufacturer. Another option would be to use two ServiceBox valve termination boxes. This would provide the valve service necessary to the meter, as well as valve isolation on the other side of the meter.

**What are some of the 'other' features/benefits of the ServiceBox system?)**

- Convenient – Boxes are color-coded for easy “grab-and-go”.
- Complete – Boxes include everything you need for a particular application. Grab the box that suits your installation and be assured to have all that you need for the installation. Just bring your tools.
- A Full Line of Accessories – Frames/extensions/covers, boiler drain, gauges, wye splitters, crosses and cross kits make the ServiceBox system incredibly adaptable.
- Strong – The exclusive MainBlock tube anchoring system provides a rock-solid installation.
- Quick Transition – The ServiceBox is perfect for multi-family projects, especially when making the transition from CPVC to PEX within the unit. No need for special adapters. Models available with different system connections on inlet/outlet (e.g. CPVC inlet x PEX outlet, IPS push inlet x CTS push outlet).
- Standardized Costs – Convert variable costs to fixed costs. Reduce touches - ***Save Time!***
- Simplify – The ServiceBox makes it easier to plan a job, bid a job, manage materials, etc.
  One product replaces boxes, stub outs, bracketing, valves, unions, adapters, and escutcheons.
- No Leaks – Convert on-the-job fabrication to a warranted product that is tested, and reduces the potential for leaks and liability.

**Other Questions???**

Contact your local Sioux Chief representative, your Regional Sales Support team. We are happy to help.

# ServiceBox™ Cost Analysis

## Dual Valve

*Prices/Costs below are estimations*

** Fill-in YOUR information into shaded cells to determine YOUR savings **

### Traditional Installation

| Materials | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | Outlet Box | $5.13 |
| 2 | Standard Port Valve | $35.00 |
| 4 | Connection Rings | $1.05 |
| 1 | inlet/outlet supports / Bracket | $6.16 |
| 4 | Pipe insulators | $1.00 |
| 2 | Foot of PEX (by size service) | $0.90 |
| 4 | Screws | $0.57 |
| 1 | Debris Cover to protect during Rough | $0.38 |
| **Trim Out** | | |
| 1 | Finish Frame | $1.17 |

| Labor | | Minutes |
|---|---|---|
| *Hourly Rate* | $40.00 | |
| **Rough-In** | | |
| Gather all parts and tools necessary for complete assembly: Saw, Pex tool, etc | | 8 |
| Bracket - If not premanufactured. Find, Measure, cut, install bracket | | 5 |
| Secure box to framing | | 7 |
| Grab drill and secure bit. Measure/Mark/drill box and screw onto bracket. | | 5 |
| Run PEX through Box. If run to box + valve only add time. Likely run in Trunk/Branch Fashion: 4 rings, 2 couplings need to be added. | | 5 |
| Place Rings. Orient Valve. Make PEX connections in box | | 3.5 |
| Install Debris Cover to protect finish | | 2 |
| Pressurize system and check for leaks | | 4 |
| **Trim Out** | | |
| Install Finish Frame | | 0.1 |
| | **Total Minutes:** | **39.6** |

| | |
|---|---|
| **Total Material Cost:** | $50.36 |
| **Total Labor Cost:** | $26.40 |
| **Total Cost:** | $76.76 |

### ServiceBox™ Installation

| Materials | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | ServiceBox™ | $66.17 |
| 4 | Connection Rings | $1.05 |
| 2 | Screws | $0.29 |
| **Trim Out** | | |
| 1 | 687-1F | $1.17 |

| Labor | | Minutes |
|---|---|---|
| **Rough-In** | | |
| Install box on Stud (the preferred installation) | | 2 |
| Connect onto supply | | 3 |
| Pressurize system and check for leaks | | 4 |
| **Trim Out** | | |
| Install Finish Frame | | 0.1 |
| | **Total Minutes:** | **9.1** |

| | |
|---|---|
| **Total Material Cost:** | $68.68 |
| **Total Labor Cost:** | $6.07 |
| **Total Cost:** | $74.74 |

## Total Savings: $2.02

| Other Benefits from using the ServiceBox™ |
|---|
| 1. Cost Control = Transition from variable labor costs to a fixed cost |
| 2. Planning = Easier material ordering and fixed material cost |
| 3. Handling = Better material management and job flow |
| 4. Aesthetics = Compact design w/ a single beveled frame and cover options. Matches all Ox Box |
| 5. Standardized = Repeatable installations at various valve locations. Same box size, Same box channel |
| 6. Consistent = Pre colored white material. Same look every time. Quality results every time. |
| 7. Secure = Solid box. ABS. STRONG BRACKET. Tank-like. |
| 8. Protection = Recessed valves. Comes standard with debris shield. Keep it and use it on all Ox Products |
| 9. Warranty = Sioux Chief's Limited Lifetime Warranty. Transition your liability of leak to a warranty |
| 10. No Lead. All-Brass. Full-Port. 600 WOG Valve |
| 11. Material. SCM quality material. DZR and SCC resistant. Highest Quality. 693 shanks. Compare us. |
| 12. SERVICE: valve is union connection. Easy repair, service, replacement. |
| 13. Looks: I mean.....would you just look at it. Calling card looks. Quality looks. |
| 14. Function: Every valve comes with a drain. Forward facing drain. |
| 15. PRV = PRV has service port and drain options. Daisy chain a PRV. Put the service where it needs to go. |
| 16. LEGAL = True Full Port Ball Valve. By Code. Not a Standard Port or reduced Port PEX ball valve. |
| 17. Convenient. Water shutoff is located where it is easy to get to. |

# ServiceBox™ Cost Analysis

## PRV Valve

*Prices/Costs below are estimations*

** Fill-in YOUR information into shaded cells to determine YOUR savings **

### Traditional Installation

***Materials***

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | Outlet Box | $5.13 |
| 1 | PRV | $50.00 |
| 2 | Connection Rings | $0.52 |
| 1 | Bracket | $6.16 |
| 1 | Foot of PEX (by size service) | $0.45 |
| 4 | Screws | $0.57 |
| 1 | Debris Cover to protect during Rough | $0.38 |
| **Trim Out** | | |
| 1 | Finish Frame | $1.17 |

***Labor***

***Hourly Rate*** **$40.00**

| | Minutes |
|---|---|
| **Rough-In** | |
| Gather all parts and tools necessary for complete assembly: Saw, Pex tool, etc | 5 |
| Bracket - If not premanufactured. Find, Measure, cut, install bracket | 7 |
| Measure/Mark/drill box and screw onto bracket. | 8 |
| Measure & Secure box to framing | 3 |
| Run PEX through Box. Assemble | 5 |
| Make PEX connections in box and out | 5 |
| Install Debris Cover to protect finish | 2 |
| Pressurize system and check for leaks | 5 |
| **Trim Out** | |
| Install Finish Frame | 0.1 |
| **Total Minutes:** | **40.1** |

**Total Material Cost:** $64.38

**Total Labor Cost:** $26.73

**Total Cost:** $91.11

### ServiceBox™ Installation

***Materials***

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | ServiceBox™ | $71.82 |
| 2 | Connection Rings | $0.52 |
| 2 | Screws | $0.29 |
| **Trim Out** | | |
| 1 | 687-1F | $1.17 |

***Labor***

| | Minutes |
|---|---|
| **Rough-In** | |
| Install box on Stud (the preferred installation) | 2 |
| Connect onto supply | 3 |
| Pressurize system and check for leaks | 5 |
| **Trim Out** | |
| Install Finish Frame | 0.1 |
| **Total Minutes:** | **10.1** |

**Total Material Cost:** $73.80

**Total Labor Cost:** $6.73

**Total Cost:** $80.53

## Total Savings: $10.59

| Other Benefits from using the ServiceBox™ |
|---|
| 1. Cost Control = Transition from variable labor costs to a fixed cost |
| 2. Planning = Easier material ordering and fixed material cost |
| 3. Handling = Better material management and job flow |
| 4. Aesthetics = Compact design w/ a single beveled frame and cover options. Matches all Ox Box |
| 5. Standardized = Repeatable installations at various valve locations. Same box size, Same box channel |
| 6. Consistent = Pre colored white material. Same look every time. Quality results every time. |
| 7. Secure = Solid box. ABS. STRONG BRACKET. Tank-like. |
| 8. Protection = Recessed valves. Comes standard with debris shield. Keep it and use it on all Ox Products |
| 9. Warranty = Sioux Chief's Limited Lifetime Warranty. Transition your liability of leak to a warranty |
| 10. No Lead. All-Brass. Full-Port. 600 WOG Valve |
| 11. Material. SCM quality material. DZR and SCC resistant. Highest Quality. 693 shanks. Compare us. |
| 12. SERVICE: valve is union connection. Easy repair, service, replacement. |
| 13. Looks: I mean…..would you just look at it. Calling card looks. Quality looks. |
| 14. Function: Every valve comes with a drain. Forward facing drain. |
| 15. PRV = PRV has service port and drain options. Daisy chain a PRV. Put the service where it needs to go. |
| 16. LEGAL = True Full Port Ball Valve. By Code. Not a Standard Port or reduced Port PEX ball valve. |
| 17. Convenient. Water shutoff is located where it is easy to get to. |

# ServiceBox™ Cost Analysis

## Single Valve

*Prices/Costs below are estimations*

** Fill-in YOUR information into shaded cells to determine YOUR savings **

### Traditional Installation

**Materials**

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | Outlet Box | $5.13 |
| 1 | Valve | $26.34 |
| 2 | Connection Rings | $0.94 |
| 1 | Bracket | $6.16 |
| 1 | Foot of PEX (by size service) | $1.80 |
| 4 | Screws | $0.57 |
| 1 | Debris Cover to protect during Rough | $0.38 |
| **Trim Out** | | |
| 1 | Finish Frame | $1.17 |

**Labor**

Hourly Rate: $40.00

| | Minutes |
|---|---|
| **Rough-In** | |
| Gather all parts and tools necessary for complete assembly: Saw, Pex tool, etc | 8 |
| Bracket - If not premanufactured. Find, Measure, cut, install bracket | 5 |
| Secure box to framing | 7 |
| Grab drill and secure bit. Measure/Mark/drill box and screw onto bracket. | 5 |
| Run PEX through Box. If run to box + valve only add time. Likely run in Trunk/Branch Fashion: 4 rings, 2 couplings need to be added. | 5 |
| Place Rings. Orient Valve. Make PEX connections in box | 3.5 |
| Install Debris Cover to protect finish | 2 |
| Pressurize system and check for leaks | 4 |
| **Trim Out** | |
| Install Finish Frame | 0.1 |
| **Total Minutes:** | **39.6** |

**Total Material Cost:** $42.49

**Total Labor Cost:** $26.40

**Total Cost:** $68.89

### ServiceBox™ Installation

**Materials**

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | ServiceBox™ | $48.22 |
| 2 | Connection Rings | $0.94 |
| 2 | Screws | $0.29 |
| **Trim Out** | | |
| 1 | 687-1F | $1.17 |

**Labor**

| | Minutes |
|---|---|
| **Rough-In** | |
| Install box on Stud (the preferred installation) | 2 |
| Connect onto supply | 3 |
| Pressurize system and check for leaks | 4 |
| **Trim Out** | |
| Install Finish Frame | 0.1 |
| **Total Minutes:** | **9.1** |

**Total Material Cost:** $50.62

**Total Labor Cost:** $6.07

**Total Cost:** $56.68

## Total Savings: $12.21

| Other Benefits from using the ServiceBox™ |
|---|
| 1. Cost Control = Transition from variable labor costs to a fixed cost |
| 2. Planning = Easier material ordering and fixed material cost |
| 3. Handling = Better material management and job flow |
| 4. Aesthetics = Compact design w/ a single beveled frame and cover options. Matches all Ox Box |
| 5. Standardized = Repeatable installations at various valve locations. Same box size, Same box channel |
| 6. Consistent = Pre colored white material. Same look every time. Quality results every time. |
| 7. Secure = Solid box. ABS. STRONG BRACKET. Tank-like. |
| 8. Protection = Recessed valves. Comes standard with debris shield. Keep it and use it on all Ox Products |
| 9. Warranty = Sioux Chief's Limited Lifetime Warranty. Transition your liability of leak to a warranty |
| 10. No Lead. All-Brass. Full-Port. 600 WOG Valve |
| 11. Material. SCM quality material. DZR and SCC resistant. Highest Quality. 693 shanks. Compare us. |
| 12. SERVICE: valve is union connection. Easy repair, service, replacement. |
| 13. Looks: I mean…..would you just look at it. Calling card looks. Quality looks. |
| 14. Function: Every valve comes with a drain. Forward facing drain. |
| 15. PRV = PRV has service port and drain options. Daisy chain a PRV. Put the service where it needs to go. |
| 16. LEGAL = True Full Port Ball Valve. By Code. Not a Standard Port or reduced Port PEX ball valve. |
| 17. Convenient. Water shutoff is located where it is easy to get to. |

# ServiceBox™ Cost Analysis

## Termination Outlet/Valve

*Prices/Costs below are estimations*

** Fill-in YOUR information into shaded cells to determine YOUR savings **

### Traditional Installation

***Materials***

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | Access Panel - surround, plastic | $10.00 |
| 1 | 3/4" FIPxFIP 1/4-turn Valve (NL) | $8.87 |
| 2 | 3/4" 90-degree. FIP x MIP elbow | $8.54 |
| 1 | 3/4" Close coupling | $2.96 |
| 1 | 3/4 MIP x PEX adapter | $6.28 |
| 4 | Screws for panel to bracket | $0.57 |
| 4 | Manufactured bracket | $6.16 |
| 1 | Connection Ring | $0.26 |
| **Trim Out** | | |
| 1 | Finish Frame | $1.17 |

***Labor***

| | | Minutes |
|---|---|---|
| ***Hourly Rate*** | **$40.00** | |
| **Rough-In** | | |
| Gather all parts and tools necessary for complete assembly: Pex tool, wrench, pipe dope, etc | | 5 |
| Bracket - If not premanufactured. Find, Measure, cut, install bracket and add to | | 3 |
| Measure/mark/dope/align/assemble Valve | | 15 |
| affix assembly to bracket | | 3 |
| Rough-In Access Panel around opening | | 5 |
| Place Rings. Orient Valve. Make PEX connections | | 3 |
| Install Debris Cover to protect finish | | 2 |
| Pressurize system and check for leaks | | 4 |
| **Trim Out** | | |
| Clean assembly, remove debris cover. Finish with Access | | 2 |
| | **Total Minutes:** | **42.0** |

| | |
|---|---|
| **Total Material Cost:** | **$44.81** |
| **Total Labor Cost:** | **$28.00** |
| **Total Cost:** | **$72.81** |

### ServiceBox™ Installation

***Materials***

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | ServiceBox™ | $35.40 |
| 1 | Connection Rings | $0.26 |
| 2 | Screws | $0.29 |
| **Trim Out** | | |
| 1 | 687-1F | $1.17 |

***Labor***

| | Minutes |
|---|---|
| **Rough-In** | |
| Install box on Stud (the preferred installation) | 3 |
| Connect onto supply | 3 |
| Pressurize system and check for leaks | 4 |
| **Trim Out** | |
| Install Finish Frame | 0.1 |
| **Total Minutes:** | **10.1** |

| | |
|---|---|
| **Total Material Cost:** | **$37.12** |
| **Total Labor Cost:** | **$6.73** |
| **Total Cost:** | **$43.85** |

## Total Savings: $28.96

| Other Benefits from using the ServiceBox™ |
|---|
| 1. Cost Control = Transition from variable labor costs to a fixed cost |
| 2. Planning = Easier material ordering and fixed material cost |
| 3. Handling = Better material management and job flow |
| 4. Aesthetics = Compact design w/ a single beveled frame and cover options. Matches all Ox Box |
| 5. Standardized = Repeatable installations at various valve locations. Same box size, Same box channel |
| 6. Consistent = Pre colored white material. Same look every time. Quality results every time. |
| 7. Secure = Solid box. ABS. STRONG BRACKET. Tank-like. |
| 8. Protection = Recessed valves. Comes standard with debris shield. Keep it and use it on all Ox Products |
| 9. Warranty = Sioux Chief's Limited Lifetime Warranty. Transition your liability of leak to a warranty |
| 10. No Lead. All-Brass. Full-Port. 600 WOG Valve |
| 11. Material. SCM quality material. DZR and SCC resistant. Highest Quality. 693 shanks. Compare us. |
| 12. SERVICE: valve is union connection. Easy repair, service, replacement. |
| 13. Looks: I mean…..would you just look at it. Calling card looks. Quality looks. |
| 14. Function: Every valve comes with a drain. Forward facing drain. |
| 15. PRV = PRV has service port and drain options. Daisy chain a PRV. Put the service where it needs to go. |
| 16. LEGAL = True Full Port Ball Valve. By Code. Not a Standard Port or reduced Port PEX ball valve. |
| 17. Convenient. Water shutoff is located where it is easy to get to. |

# ServiceBox™ Cost Analysis

## Water Heater Valve Box - Flow Through

*Prices/Costs below are estimations*

** Fill-in YOUR information into shaded cells to determine YOUR savings **

### Traditional Installation

***Materials***

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | 3/4" F.SWT X F1960 adapters | $9.23 |
| 3 | 3/4" F.SWT X F.SWT Elbows | $10.83 |
| 1 | 3/4" x 3/4" x 3/4" Tee | $1.50 |
| 2 | 3/4" M.SWT x F1960 adapter | $9.76 |
| 3 | 3/4" L. Coppper Stub out lengths (8" per) | $12.24 |
| 2 | 3/4" Connection Rings | $0.78 |
| 1 | Manufactured bracket | $6.16 |
| 4 | Screws | $0.57 |
| **Trim Out** | | |
| 1 | 3/4" F.SWT X 3/4" MIP Valve | $13.85 |
| 1 | 3/4" Copper F.SWT X MIP Adapter | $1.28 |
| 2 | 3/4 od shallow escutcheon | $0.49 |

***Labor***

***Hourly Rate*** **$40.00**

| | Minutes |
|---|---|
| **Rough-In** | |
| Gather all parts and tools necessary for complete assembly: Torch, Tools, Copper, etc | 5 |
| Bracket - If not premanufactured. Find, Measure, cut, install bracket | 7 |
| Cut / Clean / deburr / sand | 10 |
| Solder and wipe connections | 10 |
| Make PEX connections | 5 |
| Pressurize system and check for leaks | 5 |
| **Trim Out** | |
| Cut loop, drop test | 10 |
| Clean / deburr / sand | 10 |
| Install escutcheons, Solder. | 10 |
| Pressurize system and check for leaks | 5 |
| **Total Minutes:** | **77.0** |

| | |
|---|---|
| **Total Material Cost:** | **$66.69** |
| **Total Labor Cost:** | **$51.33** |
| **Total Cost:** | **$118.02** |

### ServiceBox™ Installation

***Materials***

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | ServiceBox™ | $61.56 |
| 3 | Connection Rings | $0.52 |
| 1 | Screw | $0.14 |
| **Trim Out** | | |
| 2 | 687-1F | $1.17 |

***Labor***

| | Minutes |
|---|---|
| **Rough-In** | |
| Install box on Stud (the preferred installation) | 2 |
| Connect onto supply | 3 |
| Pressurize system and check for leaks | 4 |
| **Trim Out** | |
| Install Finish Frame | 0.1 |
| **Total Minutes:** | **9.1** |

| | |
|---|---|
| **Total Material Cost:** | **$63.25** |
| **Total Labor Cost:** | **$6.07** |
| **Total Cost:** | **$69.32** |

## Total Savings: $48.71

| Other Benefits from using the ServiceBox™ |
|---|
| 1. Cost Control = Transition from variable labor costs to a fixed cost |
| 2. Planning = Easier material ordering and fixed material cost |
| 3. Handling = Better material management and job flow |
| 4. Aesthetics = Compact design w/ a single beveled frame and cover options. Matches all Ox Box |
| 5. Standardized = Repeatable installations at various valve locations. Same box size, Same box channel |
| 6. Consistent = Pre colored white material. Same look every time. Quality results every time. |
| 7. Secure = Solid box. ABS. STRONG BRACKET. Tank-like. |
| 8. Protection = Recessed valves. Comes standard with debris shield. Keep it and use it on all Ox Products |
| 9. Warranty = Sioux Chief's Limited Lifetime Warranty. Transition your liability of leak to a warranty |
| 10. No Lead. All-Brass. Full-Port. 600 WOG Valve |
| 11. Material. SCM quality material. DZR and SCC resistant. Highest Quality. 693 shanks. Compare us. |
| 12. SERVICE: valve is union connection. Easy repair, service, replacement. |
| 13. Looks: I mean.....would you just look at it. Calling card looks. Quality looks. |
| 14. Function: Every valve comes with a drain. Forward facing drain. |
| 15. PRV = PRV has service port and drain options. Daisy chain a PRV. Put the service where it needs to go. |
| 16. LEGAL = True Full Port Ball Valve. By Code. Not a Standard Port or reduced Port PEX ball valve. |
| 17. Convenient. Water shutoff is located where it is easy to get to. |

# ServiceBox™ Cost Analysis

## Water Heater Valve Box - Termination

*Prices/Costs below are estimations*

** Fill-in YOUR information into shaded cells to determine YOUR savings **

### Traditional Installation

***Materials***

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 2 | 3/4" F.SWT X F1960 adapters | $18.47 |
| 4 | 3/4" F.SWT X F.SWT Elbows | $14.45 |
| 3 | 3/4" L. Coppper Stub out lengths (8" per) | $12.24 |
| 2 | 3/4" Connection Rings | $0.52 |
| 1 | Manufactured bracket | $6.16 |
| 4 | Screws | $0.57 |
| **Trim Out** | | |
| 1 | 3/4" F.SWT X 3/4" MIP Valve | $13.85 |
| 1 | 3/4" Copper F.SWT X MIP Adapter | $1.28 |
| 2 | 3/4 od shallow escutcheon | $0.49 |

***Labor***

***Hourly Rate*** **$40.00**

| | Minutes |
|---|---|
| **Rough-In** | |
| Gather all parts and tools necessary for complete assembly: Torch, Tools, Copper, etc | 5 |
| Bracket - If not premanufactured. Find, Measure, cut, install bracket | 7 |
| Cut / Clean / deburr / sand | 10 |
| Solder and wipe connections | 10 |
| Make PEX connections | 5 |
| Pressurize system and check for leaks | 5 |
| **Trim Out** | |
| Cut loop, drop test | 10 |
| Clean / deburr / sand | 10 |
| Install escutcheons, Solder. | 10 |
| Pressurize system and check for leaks | 5 |
| **Total Minutes:** | **77.0** |

**Total Material Cost:** **$68.03**

**Total Labor Cost:** **$51.33**

**Total Cost:** **$119.36**

### ServiceBox™ Installation

***Materials***

| | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | ServiceBox™ | $60.53 |
| 2 | Connection Rings | $0.52 |
| 1 | Screws | $0.14 |
| **Trim Out** | | |
| 1 | 687-1F | $1.17 |

***Labor***

| | Minutes |
|---|---|
| **Rough-In** | |
| Install box on Stud (the preferred installation) | 2 |
| Connect onto supply | 3 |
| Pressurize system and check for leaks | 4 |
| **Trim Out** | |
| Install Finish Frame | 0.1 |
| **Total Minutes:** | **9.1** |

**Total Material Cost:** **$62.36**

**Total Labor Cost:** **$6.07**

**Total Cost:** **$68.43**

## Total Savings: $50.94

| Other Benefits from using the ServiceBox™ |
|---|
| 1. Cost Control = Transition from variable labor costs to a fixed cost |
| 2. Planning = Easier material ordering and fixed material cost |
| 3. Handling = Better material management and job flow |
| 4. Aesthetics = Compact design w/ a single beveled frame and cover options. Matches all Ox Box |
| 5. Standardized = Repeatable installations at various valve locations. Same box size, Same box channel |
| 6. Consistent = Pre colored white material. Same look every time. Quality results every time. |
| 7. Secure = Solid box. ABS. STRONG BRACKET. Tank-like. |
| 8. Protection = Recessed valves. Comes standard with debris shield. Keep it and use it on all Ox Products |
| 9. Warranty = Sioux Chief's Limited Lifetime Warranty. Transition your liability of leak to a warranty |
| 10. No Lead. All-Brass. Full-Port. 600 WOG Valve |
| 11. Material. SCM quality material. DZR and SCC resistant. Highest Quality. 693 shanks. Compare us. |
| 12. SERVICE: valve is union connection. Easy repair, service, replacement. |
| 13. Looks: I mean…..would you just look at it. Calling card looks. Quality looks. |
| 14. Function: Every valve comes with a drain. Forward facing drain. |
| 15. PRV = PRV has service port and drain options. Daisy chain a PRV. Put the service where it needs to go. |
| 16. LEGAL = True Full Port Ball Valve. By Code. Not a Standard Port or reduced Port PEX ball valve. |
| 17. Convenient. Water shutoff is located where it is easy to get to. |

# ServiceBox™ Cost Analysis

## Water Softener

*Prices/Costs below are estimations*

** Fill-in YOUR information into shaded cells to determine YOUR savings **

### Traditional Installation

| Materials | | Cost |
|---|---|---|
| **Rough-In** | | |
| 4 | 3/4" Sweat Elbow | $5.36 |
| 1 | 1/2" Sweat Elbow | $0.61 |
| 1 | 3/4" x 3/4 x 1/2" Tee | $1.38 |
| 1 | 1/2" Sweat x PEX transition adapter | $2.31 |
| 2 | 3/4" Sweat x PEX transition adapters | $9.93 |
| 1 | 1/2 connection ring | $0.15 |
| 2 | Inlet/Outlet Connection Rings | $0.52 |
| 2 | 3/4 Copper. Rigid Tubing (foot) | $3.57 |
| 2 | 1/2 Type M Copper. Rigid Tubing (foot) | $2.22 |
| 1 | Bracketing for stubout pair / brine line | $6.16 |
| **Trim Out** | | |
| 1 | 1/2" F.SWT x FIP (for brine) | $2.19 |
| 1 | 1/2" MIP x Barb (for brine) | $0.87 |
| 1 | 1/2 escutcheon | $0.11 |
| 2 | 3/4 escutcheons | $0.25 |
| 2 | 3/4" PEX x FIP transition fittings for Loop | $4.16 |

| Labor | | Minutes |
|---|---|---|
| *Hourly Rate* | $40.00 | |
| **Rough-In** | | |
| Gather all parts and tools necessary for complete assembly: Saw, Pex tool, etc | | 8 |
| Bracket - If not premanufactured. Find, Measure, cut, install bracket | | 7 |
| Cut / Clean / deburr / solder | | 20 |
| Make PEX connections | | 5 |
| Pressurize system and check for leaks | | 5 |
| **Trim Out** | | |
| Cut loop and Drop test | | 4 |
| Cut / Clean / deburr / solder | | 10 |
| Pressurize system and check for leaks | | 5 |
| **Total Minutes:** | | **64.0** |

**Total Material Cost:** $39.79

**Total Labor Cost:** $42.67

**Total Cost:** $82.46

### ServiceBox™ Installation

| Materials | | Cost |
|---|---|---|
| **Rough-In** | | |
| 1 | ServiceBox™ | $41.55 |
| 2 | Inlet/Outlet Connection Rings | $0.52 |
| 1 | 1/2 connection ring | $0.15 |
| 2 | Screws | $0.29 |
| **Trim Out** | | |
| 1 | 687-1F | $1.17 |

| Labor | | Minutes |
|---|---|---|
| **Rough-In** | | |
| Install box on Stud (the preferred installation) | | 2 |
| Connect onto supply | | 5 |
| Pressurize system and check for leaks | | 4 |
| **Trim Out** | | |
| Install Finish Frame | | 0.1 |
| **Total Minutes:** | | **11.1** |

**Total Material Cost:** $43.68

**Total Labor Cost:** $7.40

**Total Cost:** $51.08

## Total Savings: $31.38

| Other Benefits from using the ServiceBox™ |
|---|
| 1. Cost Control = Transition from variable labor costs to a fixed cost |
| 2. Planning = Easier material ordering and fixed material cost |
| 3. Handling = Better material management and job flow |
| 4. Aesthetics = Compact design w/ a single beveled frame and cover options. Matches all Ox Box |
| 5. Standardized = Repeatable installations at various valve locations. Same box size, Same box channel |
| 6. Consistent = Pre colored white material. Same look every time. Quality results every time. |
| 7. Secure = Solid box. ABS. STRONG BRACKET. Tank-like. |
| 8. Protection = Recessed valves. Comes standard with debris shield. Keep it and use it on all Ox Products |
| 9. Warranty = Sioux Chief's Limited Lifetime Warranty. Transition your liability of leak to a warranty |
| 10. No Lead. All-Brass. Full-Port. 600 WOG Valve |
| 11. Material. SCM quality material. DZR and SCC resistant. Highest Quality. 693 shanks. Compare us. |
| 12. SERVICE: valve is union connection. Easy repair, service, replacement. |
| 13. Looks: I mean…..would you just look at it. Calling card looks. Quality looks. |
| 14. Function: Every valve comes with a drain. Forward facing drain. |
| 15. PRV = PRV has service port and drain options. Daisy chain a PRV. Put the service where it needs to go. |
| 16. LEGAL = True Full Port Ball Valve. By Code. Not a Standard Port or reduced Port PEX ball valve. |
| 17. Convenient. Water shutoff is located where it is easy to get to. |

# WATER SOFTENER ACCESS BOX with INLET/OUTLET & DISCHARGE LINE

## 687 SERIES

ServiceBox™

ITEM # SUBMITTED_____

JOB NAME_____

LOCATION _____

ENGINEER_____

CONTRACTOR_____

PO#_____ TAG _____

### SPECIFICATION

Sioux Chief 687 Series water softener access box shall be used where accessible inlet/outlet and discharge line connection for water softeners is required. Access box shall include two 3/4" or 1" MIP elbows with brass caps for inlet/outlet connection and one 1/2" MIP elbow with brass cap for discharge line connection. Elbows shall include threaded brass caps for pressure test. Elbow connections shall comply with ASTM standards.

### INSTALLATION

See www.siouxchief.com for full installation instructions.
Install in a location that allows for operation, service, maintenance, etc. Make all connections per ASTM standards with compliant materials and processes. Test with water and inspect all connections for leaks before use.

### MATERIALS

**Elbows:** No-lead brass[1]
**Test caps:** No-lead brass[1] with EPDM seal
**MainBlock tube anchors:** ABS
**Access box:** ABS

### CERTIFICATIONS/APPROVALS

Tested/Certified/Approved for use in fire-rated applications – See back for ratings
IAPMO Listed, Complies with ANSI/NSF 372, Meets ASME A112.18.1

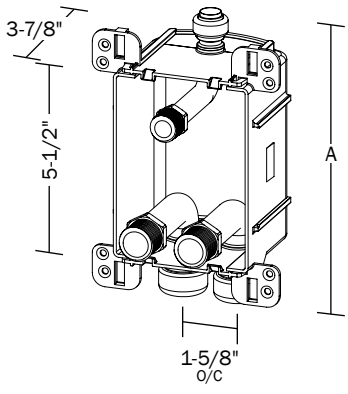
- End connections are manufactured to specifications called out in their respective ASTM standards.
- Standards for Fittings and tube options include: CPVC D2846, PEX tube F876/F877, PEX fittings ASTM F1807 & F1960, PERT tube ASTM 2769, PE tube ASTM D2737, PVC pipe ASTM D1785, CTS push fittings (ASSE 1061) compatible with CTS tube, IPS push fittings compatible with IPS pipe

687-332QB

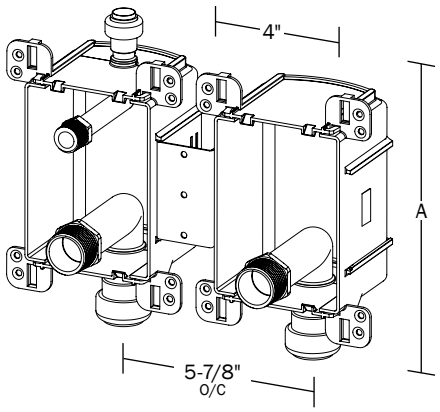
### DIMENSIONS

| A: Overall height | CPVC Socket | Push (CTS) | PEX F1960 | PEX F1807 |
|---|---|---|---|---|
| 3/4" Nom | 8-1/2" | 8-5/8" | 8-1/2" | 9-1/8" |
| 1" Nom | – | 9-3/8" | 9" | 9-1/8" |

**3/4" Model - One Box**




**1" Model - Two Boxes**
(includes box clip)




## Create Item Number

**687-AB**

**e.g. 687-332QB:** Access box with 3/4" MIP inlet/outlet elbows and 1/2" MIP elbow discharge line - Push connection

**CONNECTION SIZE A**

- ☐ **332** = Two 3/4" MIP inlet/outlet elbows with one 1/2" MIP elbow discharge line
- ☐ **442** = Two 1" MIP inlet/outlet elbows with one 1/2" MIP elbow discharge line

**CONNECTION TYPE B**

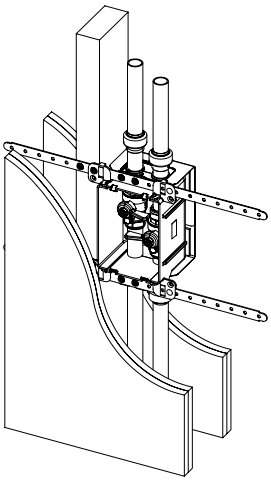
- ☐ **CB** = CPVC Socket[2]
- ☐ **WB** = PEX F1960 Expansion
- ☐ **QB** = Push Socket (CTS)
- ☐ **XB** = PEX F1807 Crimp

**Accessories - Available Separately:**
687-1F: Finish frame - fits all ServiceBox access boxes
696-EX: Frame extension - for multiple layers of drywall

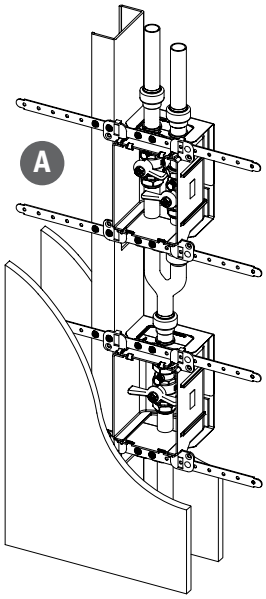
1 Material is C693 on PEX F1807/F1960, and C46500 on Push/CPVC socket connections. Materials are dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)

2 Available in 3/4" Nom only

1 Box



2 Boxes
Stacked




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 34.5 min**
**H: ✓**

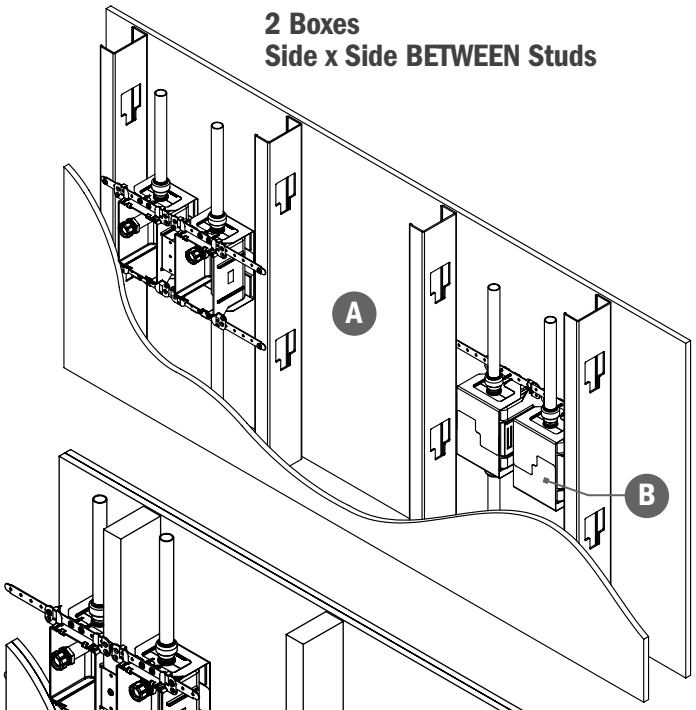
**2 Hr Walls:**
**F: 120 min**
**T: 58.5 min**
**H: ✓**

1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

---

2 Boxes
Side x Side BETWEEN Studs




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 27.5 min**
**H: ✓**

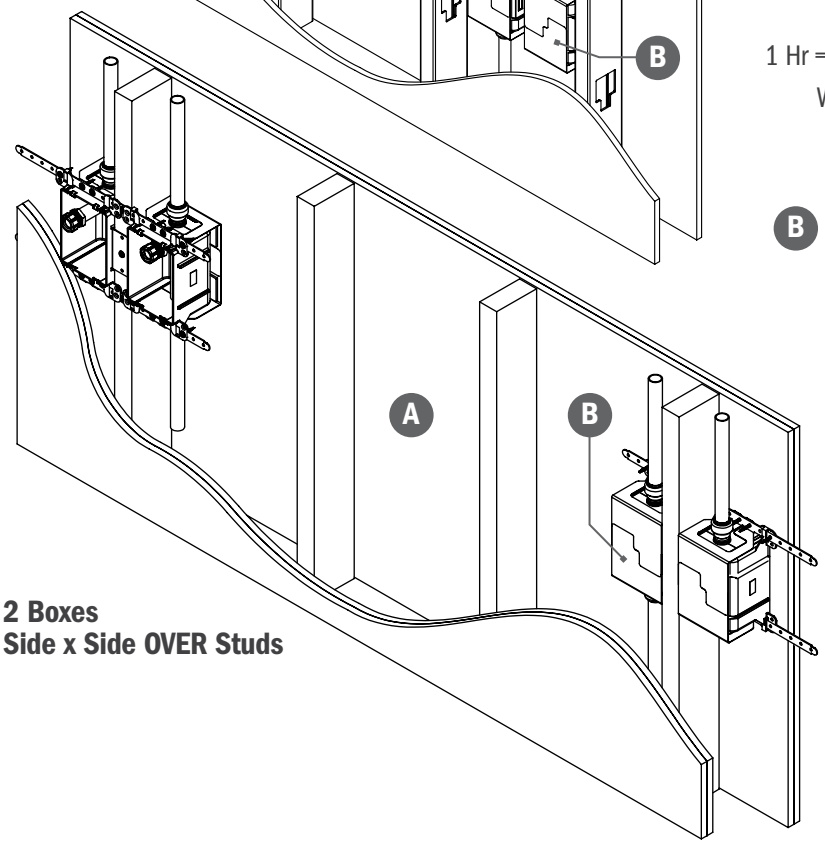
**2 Hr Walls:**
**F: 120 min**
**T: 60 min**
**H: ✓**

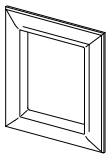
1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

B Interlocked metal fire-shield with intumescent pad

2 Boxes
Side x Side OVER Studs



No.
687-1F

Frames sold seperately

C QAI ® US
ASTM E814

# BALL VALVE ACCESS BOX with DUAL VALVES

## 687 SERIES

**ServiceBox™**

ITEM # SUBMITTED_____

JOB NAME_____

LOCATION _____

ENGINEER_____

CONTRACTOR_____

PO#_____ TAG _____

### SPECIFICATION

Sioux Chief 687 Series access box with dual ball valves shall be used where accessible, full-port ball valves are required. Ball valves shall be replaceable, 600 WOG, with forward-facing drain port and quarter-turn operation. Valve shall incorporate a union-style connection with brass tailpieces. Tailpiece connections shall comply with ASTM standards.

### INSTALLATION

See www.siouxchief.com for full installation instructions.
Install in a location that allows for operation, service, maintenance, etc. Make all connections per ASTM standards with compliant materials and processes. Test with water and inspect all connections for leaks before use.

### MATERIALS

**Valve body:** No-lead brass[2]
**Tailpieces:** No-lead brass[1]
**Valve handle:** Annodized aluminum
**Union gaskets:** EPDM
**MainBlock tube anchors:** ABS
**Access box:** ABS

### CERTIFICATIONS/APPROVALS

Tested/Certified/Approved for use in fire-rated applications – See back for ratings
IAPMO Listed, Complies with ANSI/NSF 372, Meets ASME A112.18.1 and ASME A112.4.14

- End connections are manufactured to specifications called out in their respective ASTM standards.
- Standards for Fittings and tube options include: CPVC D2846, PEX tube F876/F877, PEX fittings ASTM F1807 & F1960, PERT tube ASTM 2769, PE tube ASTM D2737, PVC pipe ASTM D1785, CTS push fittings (ASSE 1061) compatible with CTS tube, IPS push fittings compatible with IPS pipe

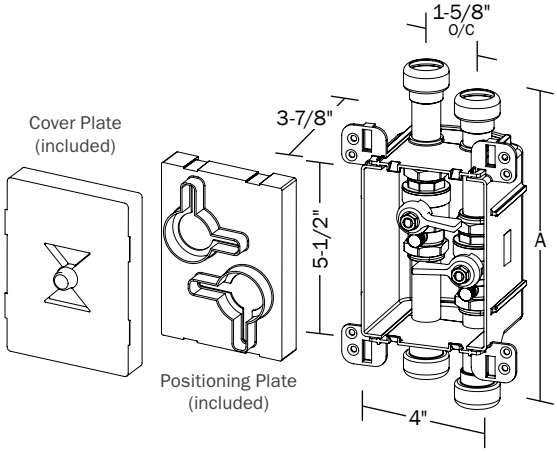
### VALVE MAX PRESSURE

600 psig WOG

687-3QDT

### DIMENSIONS

| A: Overall height | Push (CTS) | PEX F1960 | PEX F1807 |
|---|---|---|---|
| 1/2" Nom | 9-3/4" | 9-7/8" | 10-5/8" |
| 3/4" Nom | 9-3/4" | 9-7/8" | 10-5/8" |




## Create Item Number

**687-AB**

**e.g. 687-3QDT:** Access box with dual, 600 WOG full-port ball valves with drain - 3/4" Push x 3/4" Push connection

**CONNECTION SIZE A**

- ☐ **2** = 1/2" Nom.
- ☐ **3** = 3/4" Nom.

**CONNECTION TYPE B**

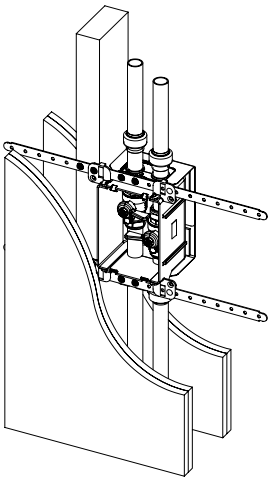
- ☐ **QDT** = Push Socket (CTS)
- ☐ **WDT** = PEX F1960 Expansion
- ☐ **XDT** = PEX F1807 Crimp

**Accessories - Available Separately:**
687-1F: Finish frame - fits all ServiceBox access boxes
696-EX: Frame extension - for multiple layers of drywall
696-SC: Solid frame insert
687-Y33: Wye splitter: 3/4" x 3/4" x 3/4"
687-Y43: Wye splitter: 1" x 3/4" x 3/4"

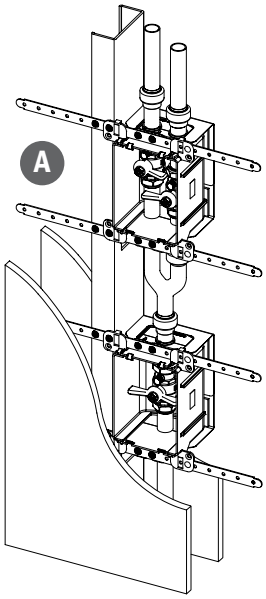
1 Tailpiece material is C693 on PEX F1807/F1960, and C46500 on Push Socket connection. Materials are dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)

2 Valve material is C69300. Dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)

1 Box



2 Boxes
Stacked




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 34.5 min**
**H: ✓**

**2 Hr Walls:**
**F: 120 min**
**T: 58.5 min**
**H: ✓**

1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

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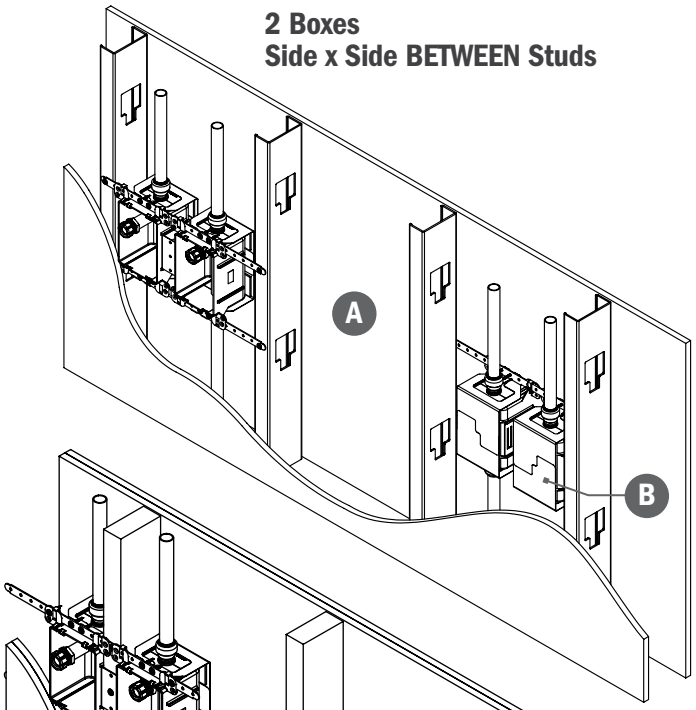
2 Boxes
Side x Side BETWEEN Studs




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 27.5 min**
**H: ✓**

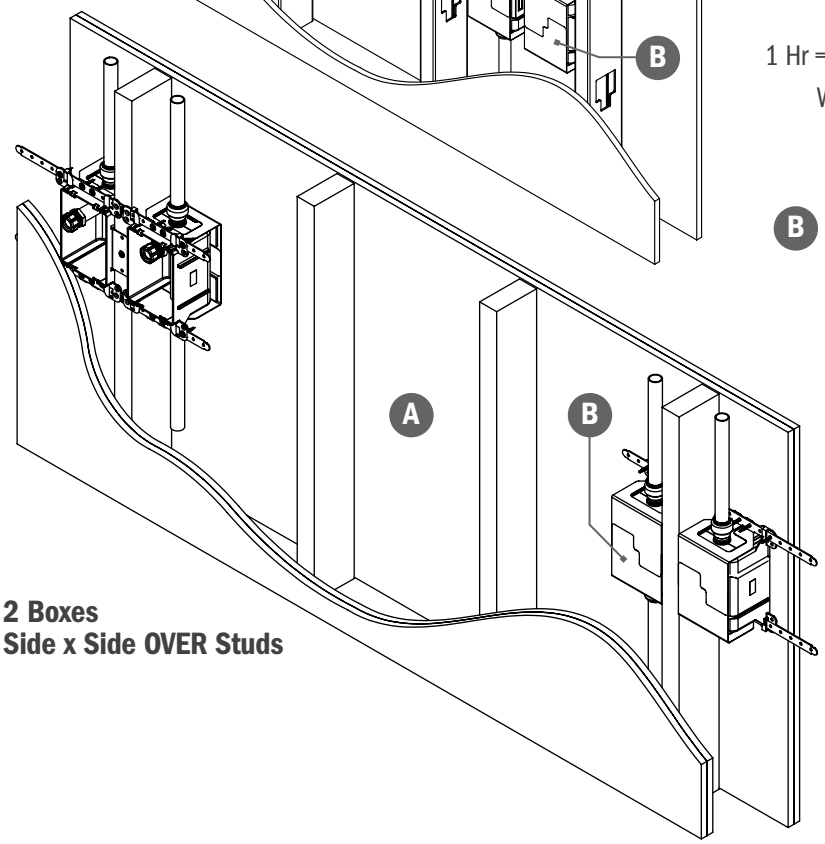
**2 Hr Walls:**
**F: 120 min**
**T: 60 min**
**H: ✓**

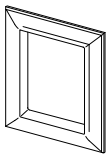
1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

B Interlocked metal fire-shield with intumescent pad

2 Boxes
Side x Side OVER Studs



No.
687-1F

Frames sold seperately

C QAI ® US
ASTM E814

# BALL VALVE ACCESS BOX
# SINGLE VALVE with DRAIN

## 687 SERIES

ServiceBox™

ITEM # SUBMITTED_____

JOB NAME_____

LOCATION _____

ENGINEER_____

CONTRACTOR_____

PO#_____ TAG _____

### SPECIFICATION
Sioux Chief 687 Series ball valve access box shall be used where accessible, full-port ball valves are required. Ball valve shall be replaceable, 600 WOG, with forward-facing drain port and quarter-turn operation. Valve shall incorporate a union-style connection with brass tailpieces. Tailpiece connections shall comply with ASTM standards.

### INSTALLATION
See www.siouxchief.com for full installation instructions.
Install in a location that allows for operation, service, maintenance, etc. Make all connections per ASTM standards with compliant materials and processes. Test with water and inspect all connections for leaks before use.

### MATERIALS
**Valve body:** No-lead brass[2]
**Tailpieces:** No-lead brass[1]
**Valve handle:** Annodized aluminum
**Union gaskets:** EPDM
**MainBlock tube anchors:** ABS
**Access box:** ABS

### CERTIFICATIONS/APPROVALS
Tested/Certified/Approved for use in fire-rated applications – See back for ratings
IAPMO Listed, Complies with ANSI/NSF 372, Meets ASME A112.18.1 and ASME A112.4.14
- End connections are manufactured to specifications called out in their respective ASTM standards.
- Standards for Fittings and tube options include: CPVC D2846, PEX tube F876/F877, PEX fittings ASTM F1807 & F1960, PERT tube ASTM 2769, PE tube ASTM D2737, PVC pipe ASTM D1785, CTS push fittings (ASSE 1061) compatible with CTS tube, IPS push fittings compatible with IPS pipe

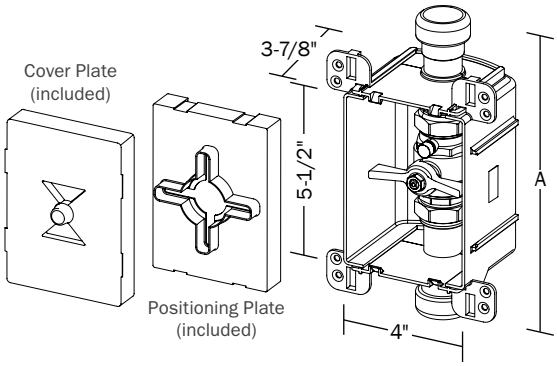
687-4QD

### VALVE MAX PRESSURE
600 psig WOG

### DIMENSIONS

| A: Overall height | CPVC Socket | MSWT/Press/Push | Push (CTS) | PEX F1960 |
|---|---|---|---|---|
| 1/2" Nom | 9" | 9-7/8" | 9" | 9-1/8" |
| 3/4" Nom | 8-7/8" | 10" | 9" | 9-1/8" |
| 1" Nom | 9-3/8" | 10-3/8" | 9-3/8" | 9-5/8" |
| 1-1/4" Nom | 10-3/8" | 11-7/8" | 10" | 10-1/2" |

| Overall height | PEX F1807 | CPVC x F1960 | CPVC x F1807 | Push (IPS x CTS) |
|---|---|---|---|---|
| 1/2" Nom | 9-7/8" | – | – | – |
| 3/4" Nom | 9-7/8" | 9" | 9-3/8" | 9" |
| 1" Nom | 9-7/8" | 9-1/2" | 9-5/8" | 9-3/8" |
| 1-1/4" Nom | 10-3/8" | – | – | – |




## Create Item Number

**687-AB**

**e.g. 687-3QD:** Access box and 600 WOG full-port ball valve with drain - 3/4" CTS Push x 3/4" CTS Push connection

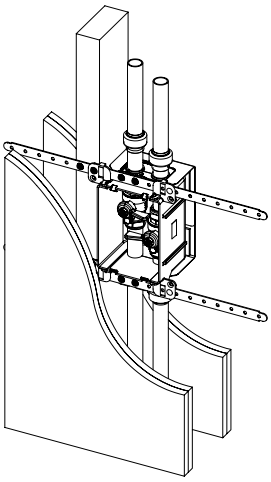
**CONNECTION SIZE A**
- ☐ **2** = 1/2" Nom.
- ☐ **3** = 3/4" Nom.
- ☐ **4** = 1" Nom.
- ☐ **5** = 1-1/4" Nom.

**CONNECTION TYPE B**
- ☐ **CD** = CPVC socket
- ☐ **PD** = MSWT/Press/Push
- ☐ **QD** = Push Socket (CTS)
- ☐ **WD** = PEX F1960 Expansion
- ☐ **XD** = PEX F1807 Crimp
- ☐ **CWD** = CPVC socket x PEX F1960 Expansion[3]
- ☐ **CXD** = CPVC socket x PEX F1807 Crimp[3]
- ☐ **SQD** = Push Socket (IPS) x Push Socket (CTS)[3]

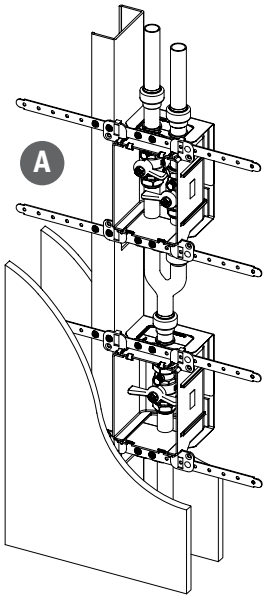
**Accessories - Available Separately:**
687-1F: Finish frame - fits all ServiceBox access boxes
696-EX: Frame extension - for multiple layers of drywall
696-SC: Solid frame insert
687-Y33: Wye splitter: 3/4" x 3/4" x 3/4"
687-Y43: Wye splitter: 1" x 3/4" x 3/4"

1 Tailpiece material is C693 on PEX F1807/F1960, and MSWT models, and is otherwise C46500. Materials are dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)
2 Valve material is C69300. Dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)
3 Available in 3/4" x 3/4" and 1" x 1" sizes only.

1 Box



2 Boxes
Stacked




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 34.5 min**
**H: ✓**

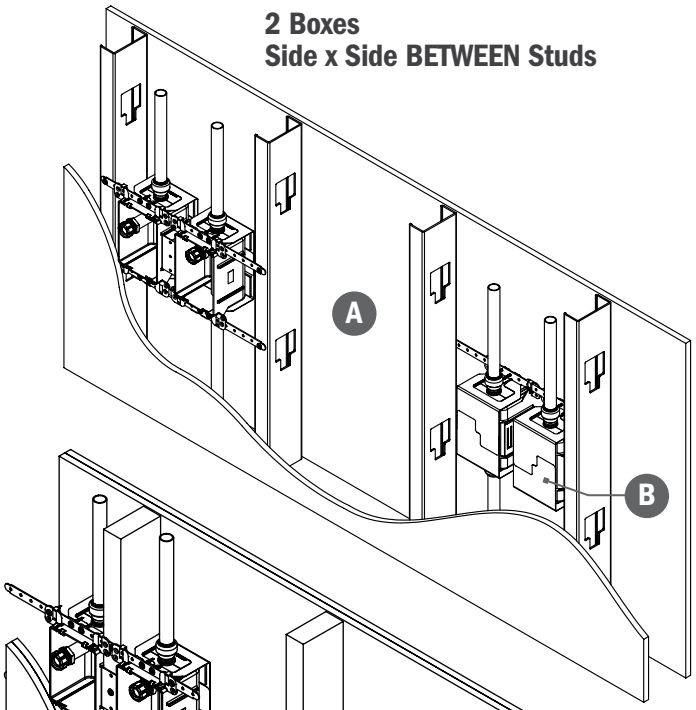
**2 Hr Walls:**
**F: 120 min**
**T: 58.5 min**
**H: ✓**

1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

---

2 Boxes
Side x Side BETWEEN Studs




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 27.5 min**
**H: ✓**

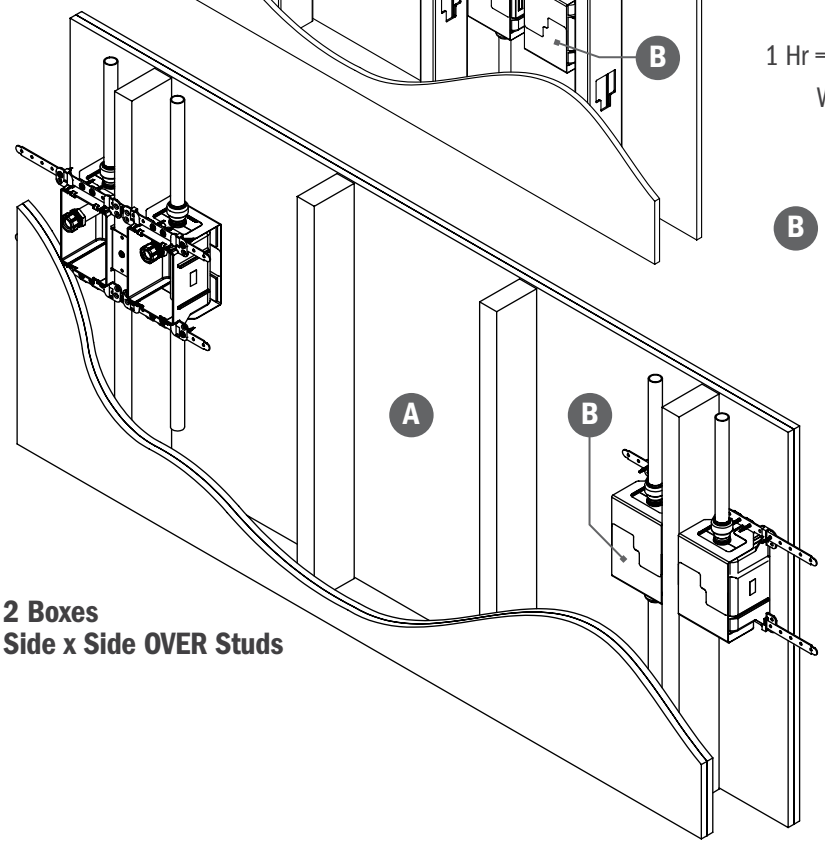
**2 Hr Walls:**
**F: 120 min**
**T: 60 min**
**H: ✓**

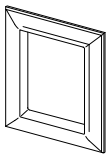
1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

B Interlocked metal fire-shield with intumescent pad

2 Boxes
Side x Side OVER Studs



No.
687-1F

Frames sold seperately

C QAI ® US
ASTM E814

# PRESSURE-REDUCING VALVE ACCESS BOX

## 687 SERIES

**ServiceBox™**

ITEM # SUBMITTED_____

JOB NAME_____

LOCATION _____

ENGINEER_____

CONTRACTOR_____

PO#_____ TAG _____

### SPECIFICATION

Sioux Chief 687 Series pressure-reducing valve access box shall be used where accessible, pressure-reducing valves are required to reduce incoming water pressure to conserve water use and protect fixtures. Valve shall be fully adjustable and easily replaceable, with optional forward-facing drain port. Valve shall incorporate a union-style connection with brass tailpieces. Tailpiece connections shall comply with ASTM standards.

### INSTALLATION

See www.siouxchief.com for full installation instructions. Product ships with PVC 'jumper' installed and valve boxed separately for later installation. Install in a location that allows for adjustment, service, maintenance, etc. Make all connections per ASTM standards with compliant materials and processes. Test with water and inspect all connections for leaks before use.

### MATERIALS

**Valve body:** No-lead brass[2]
**Tailpieces:** No-lead brass[1]
**Adjustment screw/locknut:** Stainless steel
**Black cover cap:** Nylon
**Union gaskets:** LDPE
**MainBlock tube anchors:** ABS
**Access box:** ABS

### CERTIFICATIONS/APPROVALS

Tested/Certified/Approved for use in fire-rated applications – See back for ratings
IAPMO Listed, Complies with ANSI/NSF 372, ASSE 1003, Meets ASME A112.18.1

- End connections are manufactured to specifications called out in their respective ASTM standards.
- Standards for Fittings and tube options include: CPVC D2846, PEX tube F876/F877, PEX fittings ASTM F1807 & F1960, PERT tube ASTM 2769, PE tube ASTM D2737, PVC pipe ASTM D1785, CTS push fittings (ASSE 1061) compatible with CTS tube, IPS push fittings compatible with IPS pipe

**VALVE PRESSURE PRESET:** 60 PSIG
**VALVE PRESSURE RANGE:** 25 - 75 PSIG
**VALVE MAX PRESSURE:** 400 PSIG non-shock CWP
**VALVE MAX TEMPERATURE:** 180° F

### FLOW CAPACITY

| P Variation (fall off) | 0 PSI | 5 PSI | 10 PSI | 15 PSI | 20 PSI | 25 PSI |
|---|---|---|---|---|---|---|
| 3/4" Nom | 0 GPM | 4.1 GPM | 10.6 GPM | 19.2 GPM | 27.1 GPM | 35.6 GPM |
| 1" Nom | 0 GPM | 4.29 GPM | 18.20 GPM | 29.79 GPM | 34.72 GPM | 38.5 GPM |

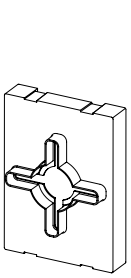
### DIMENSIONS

| A: Overall height* | MSWT/Press/Push x Push Socket (CTS) | Push Socket (CTS) | PEX F1960 | PEX F1807 |
|---|---|---|---|---|
| 3/4" Nom | 10" | 9-5/8" | 9-3/4" | 10-1/2" |
| 1" Nom | 10-3/8" | 9-7/8" | 10" | 10-3/8" |

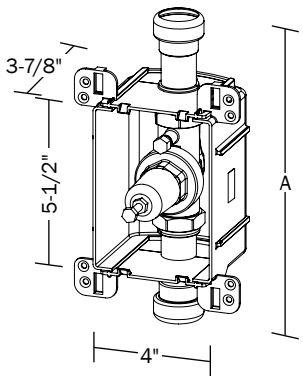
* Add 3/8" to overall height for 1" models with port. Add 5/8" to overall height for 3/4" models with port.


Ships with PVC 'jumper' installed and valve included. Replace jumper with valve at finish

687-4RQQD



Positioning Plate (included)




### Create Item Number

**687-AB**

**e.g. 687-3QD:** Access box and 600 WOG full-port ball valve with drain - 3/4" CTS Push x 3/4" CTS Push connection

**CONNECTION SIZE A**

- ☐ **3R** = 3/4" Nom.
- ☐ **4R** = 1" Nom.

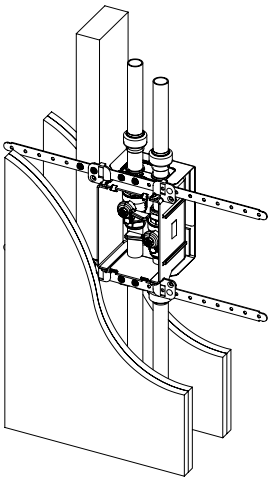
**CONNECTION TYPE & PORT[3] OPTION B**

- ☐ **PQ** = MSWT x Push Socket (CTS)
- ☐ **QQ** = Push Socket (CTS)
- ☐ **WW** = PEX F1960 Expansion
- ☐ **XX** = PEX F1807 Crimp
- ☐ **QQD** = Push Socket (CTS) with Port[3]
- ☐ **WWD** = PEX F1960 Expansion with Port[3]
- ☐ **XXD** = PEX F1807 Crimp with Port[3]

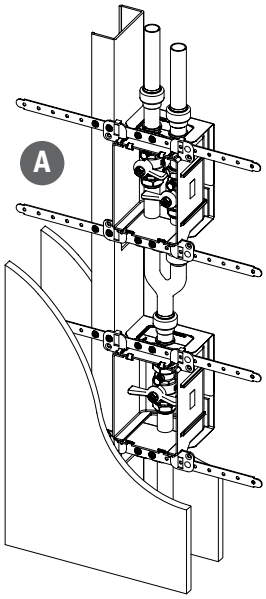
**Accessories - Available Separately:**
687-1F: Finish frame - fits all ServiceBox access boxes
696-EX: Frame extension - for multiple layers of drywall
687-Y33: Wye splitter: 3/4" x 3/4" x 3/4"
687-Y43: Wye splitter: 1" x 3/4" x 3/4"
131-G0Y3HR101: 1/4" swivel comp. x MHT ball valve (for outlet port)
930-46101001: 1/4" swivel comp. x 1/4" FIP adapter (for outlet port)

1 Tailpiece material is C693 on PEX F1807/F1960, and MSWT models, and is otherwise C46500. Materials are dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)
2 Valve material is C69300. Dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)
3 Outlet port is 1/4" male compression thread with brass cap and gasket

1 Box



2 Boxes
Stacked




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 34.5 min**
**H: ✓**

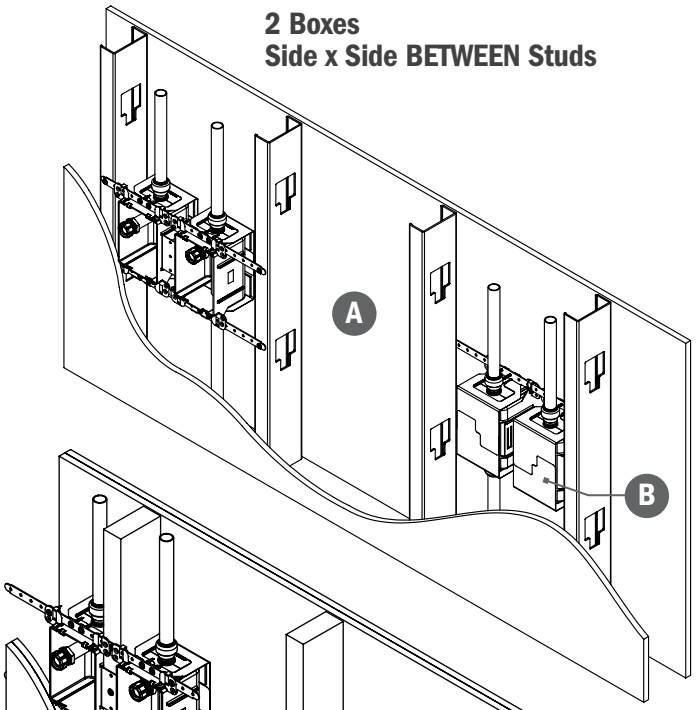
**2 Hr Walls:**
**F: 120 min**
**T: 58.5 min**
**H: ✓**

1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

---

2 Boxes
Side x Side BETWEEN Studs




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 27.5 min**
**H: ✓**

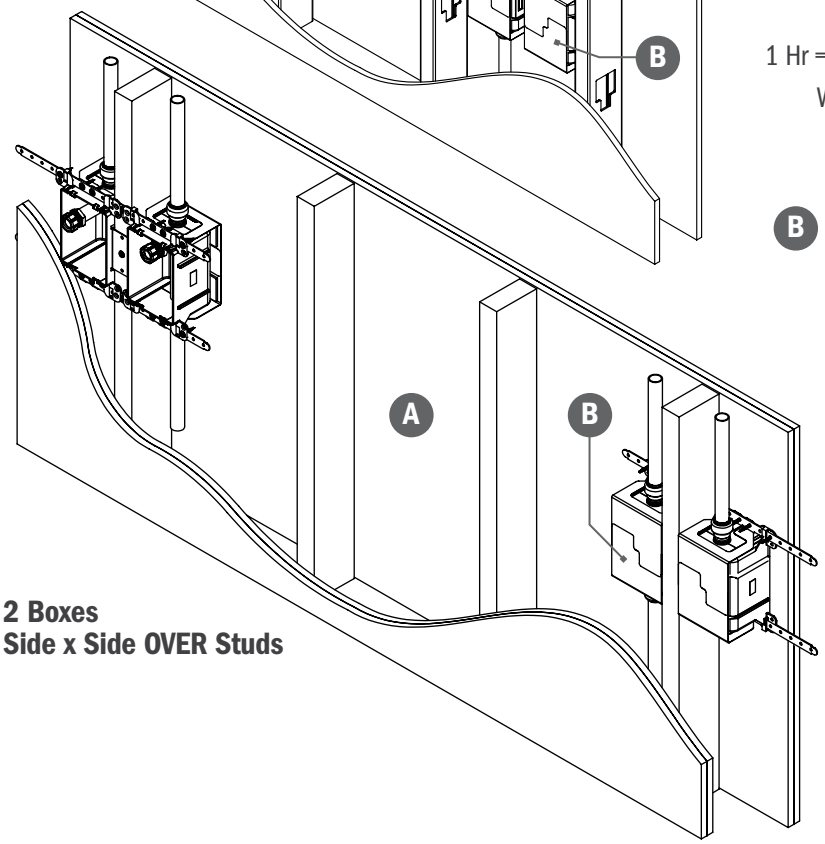
**2 Hr Walls:**
**F: 120 min**
**T: 60 min**
**H: ✓**

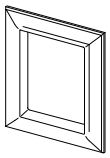
1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

B Interlocked metal fire-shield with intumescent pad

2 Boxes
Side x Side OVER Studs



No.
687-1F

Frames sold seperately

C QAI ® US
ASTM E814

# BALL VALVE ACCESS BOX
# MIP TERMINATION CONNECTION

## 687 SERIES

ServiceBox™

ITEM # SUBMITTED_____

JOB NAME_____

LOCATION _____

ENGINEER_____

CONTRACTOR_____

PO#_____ TAG _____

### SPECIFICATION
Sioux Chief 687 Series valve termination access box shall be used where accessible, valved water service is required for appliances or other fixtures. Ball valve shall be replaceable, 600 WOG, with forward-facing, MIP connection port and quarter-turn operation. Valve shall incorporate a union-style connection with brass elbow and tailpiece.
Elbow and tailpiece connections shall comply with ASTM standards.

### INSTALLATION
See www.siouxchief.com for full installation instructions.
Install in a location that allows for operation, service, maintenance, etc. Make all connections per ASTM standards with compliant materials and processes. Test with water and inspect all connections for leaks before use.

### MATERIALS
**Valve body:** No-lead brass[2]
**Tailpiece/Elbow:** No-lead brass[1]
**Valve handle:** Annodized aluminum
**Union gaskets:** EPDM
**MainBlock tube anchors:** ABS
**Access box:** ABS

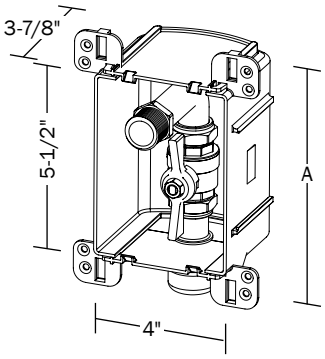

687-3QV

### CERTIFICATIONS/APPROVALS
Tested/Certified/Approved for use in fire-rated applications – See back for ratings
IAPMO Listed, Complies with ANSI/NSF 372, Meets ASME A112.18.1 and ASME A112.4.14
- End connections are manufactured to specifications called out in their respective ASTM standards.
- Standards for Fittings and tube options include: CPVC D2846, PEX tube F876/F877, PEX fittings ASTM F1807 & F1960, PERT tube ASTM 2769, PE tube ASTM D2737, PVC pipe ASTM D1785, CTS push fittings (ASSE 1061) compatible with CTS tube, IPS push fittings compatible with IPS pipe

### VALVE MAX PRESSURE
600 psig WOG

### DIMENSIONS

| A: Overall height | CPVC Socket | MSWT/Press/Push | Push (CTS) | PEX F1960 | PEX F1807 |
|---|---|---|---|---|---|
| 3/4" Nom | 7-1/4" | 7-5/8" | 7-3/8" | 7-3/4" | 7-5/8" |




### Create Item Number

**687-A**

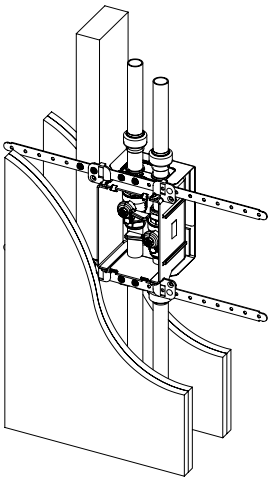
**e.g. 687-3QV:** Valve termination access box with 600 WOG full-port ball valve with MIP outlet - 3/4" CTS Push connection

**CONNECTION SIZE/TYPE A**
- ☐ **3CV** = 3/4" CPVC socket
- ☐ **3PV** = 3/4" MSWT/Press/Push
- ☐ **3QV** = 3/4" Push socket
- ☐ **3WV** = 3/4" PEX F1960 Expansion
- ☐ **3XV** = 3/4" PEX F1807 Crimp

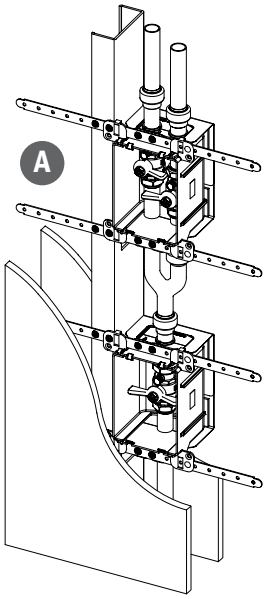
**Accessories - Available Separately:**
687-1F: Finish frame - fits all ServiceBox access boxes
696-EX: Frame extension - for multiple layers of drywall

1 Tailpiece material is C693 on PEX F1807/F1960, and MSWT models, and is otherwise C46500. Materials are dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)
2 Valve material is C69300. Dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)

1 Box



2 Boxes
Stacked




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 34.5 min**
**H: ✓**

**2 Hr Walls:**
**F: 120 min**
**T: 58.5 min**
**H: ✓**

1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

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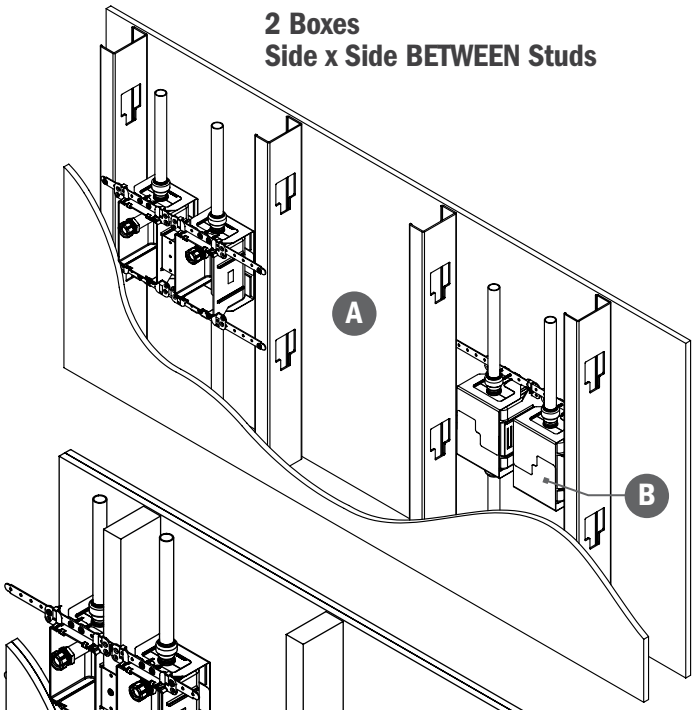
2 Boxes
Side x Side BETWEEN Studs




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 27.5 min**
**H: ✓**

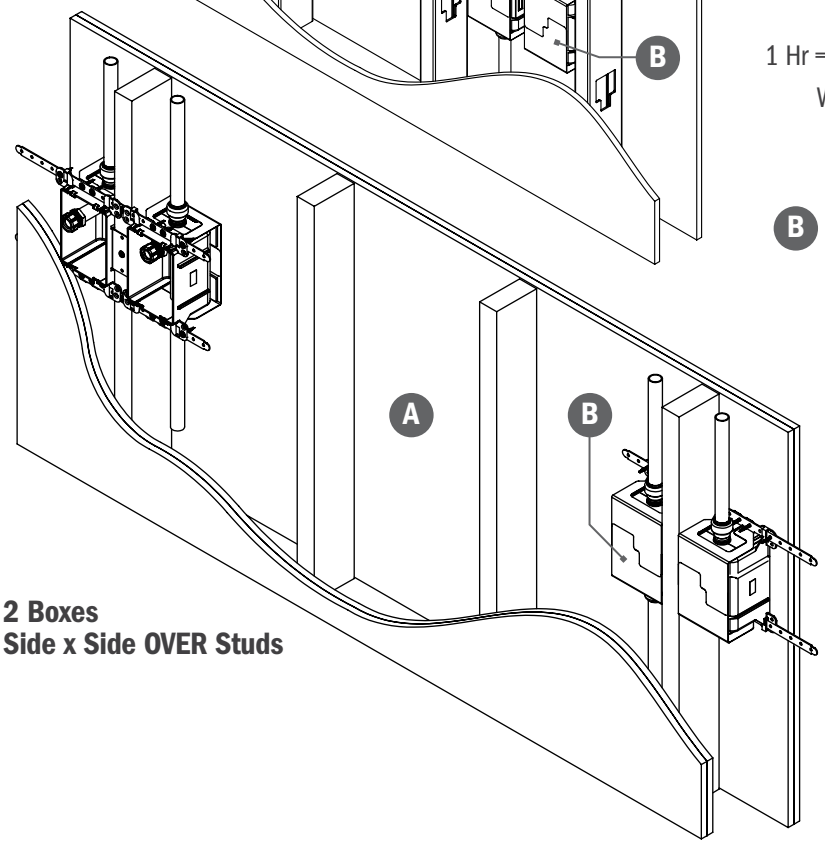
**2 Hr Walls:**
**F: 120 min**
**T: 60 min**
**H: ✓**

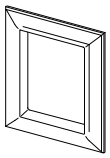
1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

B Interlocked metal fire-shield with intumescent pad

2 Boxes
Side x Side OVER Studs



No.
687-1F

Frames sold seperately

C QAI ® US
ASTM E814

# WATER HEATER ACCESS BOX
# FLOW-THROUGH DESIGN

## 687 SERIES

ServiceBox™

ITEM # SUBMITTED_____

JOB NAME_____

LOCATION _____

ENGINEER_____

CONTRACTOR_____

PO#_____ TAG _____

### SPECIFICATION
Sioux Chief 687 Series water heater access box shall be used where accessible, valved connection for water heaters is required. Two-box design shall include one box for cold-side MIP outlet with ball valve and flow-through bypass behind the valve; and second box for hot-side MIP elbow inlet with test cap. Ball valve shall be replaceable, 600 WOG with T-handle and quarter-turn operation.
Elbow and tailpiece connections shall comply with ASTM standards.

### INSTALLATION
See www.siouxchief.com for full installation instructions.
Install in a location that allows for operation, service, maintenance, etc. Make all connections per ASTM standards with compliant materials and processes. Test with water and inspect all connections for leaks before use.

### MATERIALS
**Valve body:** No-lead brass[2]
**Tailpiece/Elbow:** No-lead brass[1]
**Valve handle:** Annodized aluminum
**Test cap:** Nylon (hot-side)
**FIP swivel gaskets:** EPDM
**MainBlock tube anchors:** ABS
**Access box:** ABS

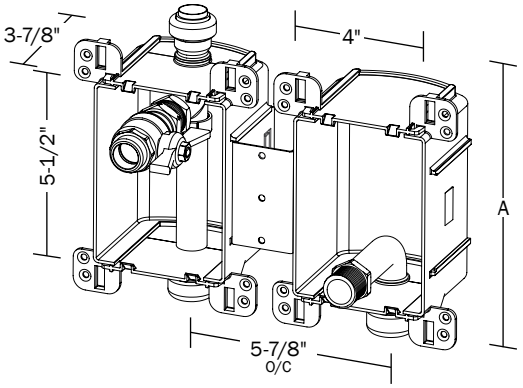
### CERTIFICATIONS/APPROVALS
Tested/Certified/Approved for use in fire-rated applications – See back for ratings
IAPMO Listed, Complies with ANSI/NSF 372, Meets ASME A112.18.1 and ASME A112.4.14
- End connections are manufactured to specifications called out in their respective ASTM standards.
- Standards for Fittings and tube options include: CPVC D2846, PEX tube F876/F877, PEX fittings ASTM F1807 & F1960, PERT tube ASTM 2769, PE tube ASTM D2737, PVC pipe ASTM D1785, CTS push fittings (ASSE 1061) compatible with CTS tube, IPS push fittings compatible with IPS pipe

### VALVE MAX PRESSURE
600 psig WOG

### DIMENSIONS

| A: Overall height | CPVC Socket | MSWT/Press/Push | Push (CTS) | PEX F1960 | PEX F1807 |
|---|---|---|---|---|---|
| 3/4" Nom | 8-5/8" | 10" | 8-5/8" | 8-5/8" | 9-3/8" |


687-3QH




### Create Item Number

**687-A**

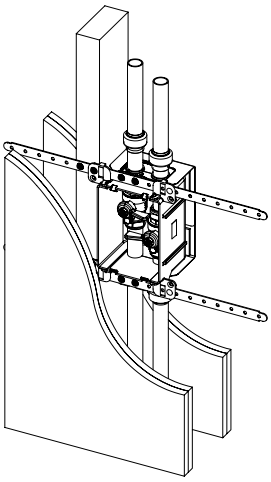
**e.g. 687-3QH:** Flow-through-style water heater access box with 600 WOG full-port ball valve - 3/4" CTS Push connection

**CONNECTION SIZE/TYPE A**
- ☐ **3CH** = 3/4" CPVC socket
- ☐ **3PH** = 3/4" MSWT/Press/Push
- ☐ **3QH** = 3/4" Push socket
- ☐ **3WH** = 3/4" PEX F1960 Expansion
- ☐ **3XH** = 3/4" PEX F1807 Crimp

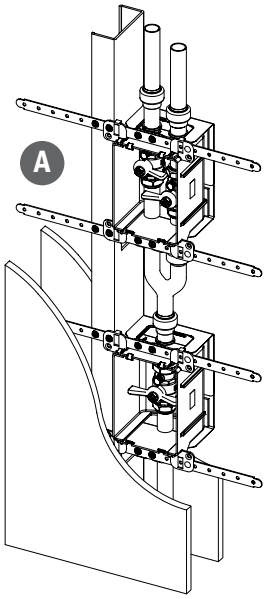
**Accessories - Available Separately:**
687-1F: Finish frame - fits all ServiceBox access boxes
696-EX: Frame extension - for multiple layers of drywall
648-3SM: 600 WOG Brass Ball Valve - 3/4" FIPS x 3/4" MIP
687-3SFMH: Cross Adapter - 3/4'' FIP Swivel X 3/4'' FIP X 3/4'' MIP X 3/4'' MHT w/ Cap
687-3SMFH: Cross Adapter - 3/4'' FIP Swivel X 3/4'' MIP X 3/4'' FIP X 3/4'' MHT w/ Cap
687-3SMMH: Cross Adapter - 3/4'' FIP Swivel X 3/4'' MIP X 3/4'' MIP X 3/4'' MHT w/ Cap
687-3SMKIT: Cross Adapter Kit - Includes 648-3SM / 687-3SMFH / 687-3SMMH
598-023: TankBracket™ Expansion tank support bracket

1 Tailpiece material is C693 on PEX F1807/F1960, and MSWT models, and is otherwise C46500. Materials are dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)
2 Valve material is C69300. Dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)

1 Box



2 Boxes
Stacked




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 34.5 min**
**H: ✓**

**2 Hr Walls:**
**F: 120 min**
**T: 58.5 min**
**H: ✓**

1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

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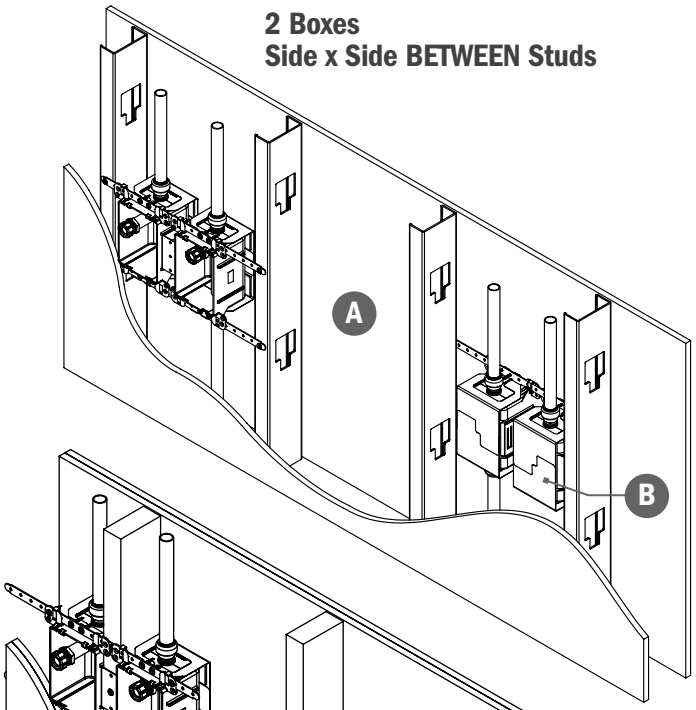
2 Boxes
Side x Side BETWEEN Studs




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 27.5 min**
**H: ✓**

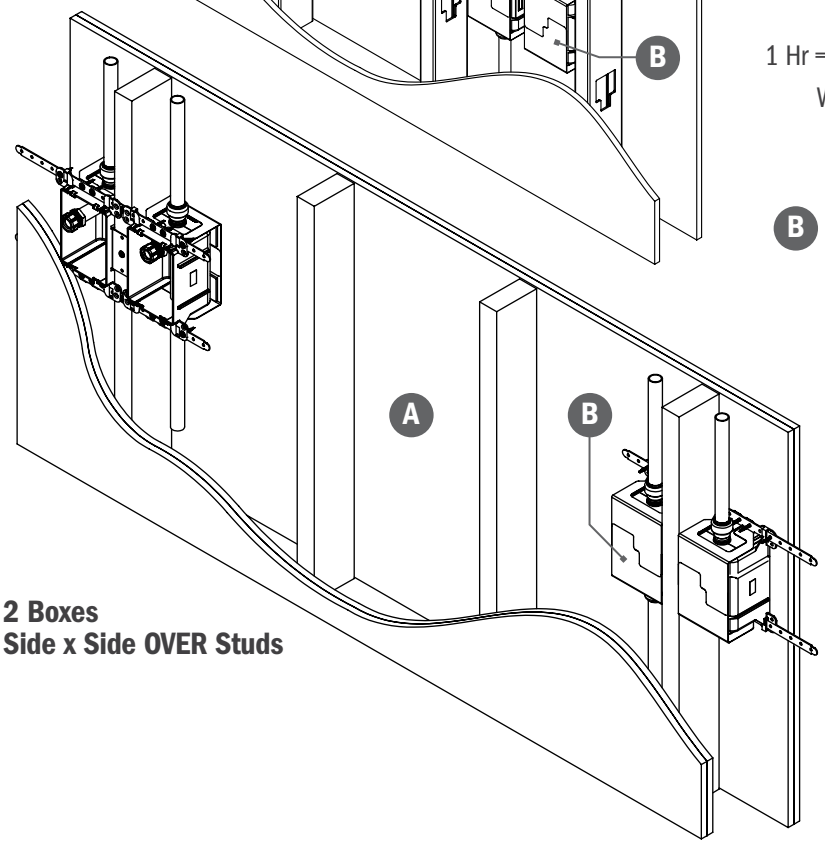
**2 Hr Walls:**
**F: 120 min**
**T: 60 min**
**H: ✓**

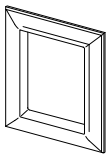
1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

B Interlocked metal fire-shield with intumescent pad

2 Boxes
Side x Side OVER Studs



No.
687-1F

Frames sold seperately

C QAI ® US
ASTM E814

# WATER HEATER ACCESS BOX TERMINATION DESIGN

## 687 SERIES

**ServiceBox™**

ITEM # SUBMITTED_____

JOB NAME_____

LOCATION _____

ENGINEER_____

CONTRACTOR_____

PO#_____ TAG _____

### SPECIFICATION

Sioux Chief 687 Series water heater access box shall be used where accessible, valved connection for water heaters is required. Two-box design shall include one box for cold-side MIP elbow outlet with ball valve; and second box for hot-side MIP elbow inlet with test cap. Ball valve shall be replaceable, 600 WOG with union-style connection and quarter-turn operation.
Elbow and tailpiece connections shall comply with ASTM standards.

### INSTALLATION

See www.siouxchief.com for full installation instructions.
Install in a location that allows for operation, service, maintenance, etc. Make all connections per ASTM standards with compliant materials and processes. Test with water and inspect all connections for leaks before use.

### MATERIALS

**Valve body:** No-lead brass[2]
**Tailpiece/Elbow:** No-lead brass[1]
**Valve handle:** Annodized aluminum
**Test cap:** Nylon (hot-side)
**Union gaskets:** EPDM
**MainBlock tube anchors:** ABS
**Access box:** ABS

### CERTIFICATIONS/APPROVALS

Tested/Certified/Approved for use in fire-rated applications – See back for ratings
IAPMO Listed, Complies with ANSI/NSF 372, Meets ASME A112.18.1 and ASME A112.4.14

- End connections are manufactured to specifications called out in their respective ASTM standards.
- Standards for Fittings and tube options include: CPVC D2846, PEX tube F876/F877, PEX fittings ASTM F1807 & F1960, PERT tube ASTM 2769, PE tube ASTM D2737, PVC pipe ASTM D1785, CTS push fittings (ASSE 1061) compatible with CTS tube, IPS push fittings compatible with IPS pipe

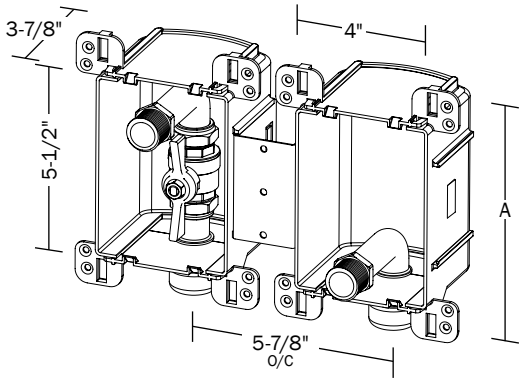
### VALVE MAX PRESSURE

600 psig WOG

### DIMENSIONS

| A: Overall height | CPVC Socket | MSWT/Press/Push | Push (CTS) | PEX F1960 | PEX F1807 |
|---|---|---|---|---|---|
| 3/4" Nom | 7-1/4" | 7-5/8" | 7-3/8" | 7-3/4" | 7-5/8" |

687-3QH2




### Create Item Number

**687-A**

**e.g. 687-3QH2:** Termination-style water heater access box with 600 WOG full-port ball valve - 3/4" CTS Push connection

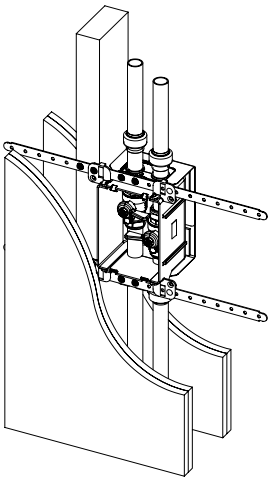
**CONNECTION SIZE/TYPE A**

- ☐ **3CH2** = 3/4" CPVC socket
- ☐ **3PH2** = 3/4" MSWT/Press/Push
- ☐ **3QH2** = 3/4" Push socket
- ☐ **3WH2** = 3/4" PEX F1960 Expansion
- ☐ **3XH2** = 3/4" PEX F1807 Crimp

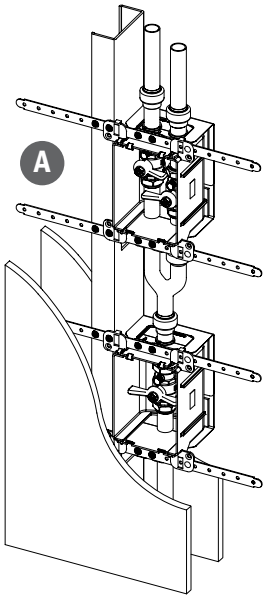
**Accessories - Available Separately:**
687-1F: Finish frame - fits all ServiceBox access boxes
696-EX: Frame extension - for multiple layers of drywall
648-3SM: 600 WOG Brass Ball Valve - 3/4" FIPS x 3/4" MIP
687-3SFMH: Cross Adapter - 3/4'' FIP Swivel X 3/4'' FIP X 3/4'' MIP X 3/4'' MHT w/ Cap
687-3SMFH: Cross Adapter - 3/4'' FIP Swivel X 3/4'' MIP X 3/4'' FIP X 3/4'' MHT w/ Cap
687-3SMMH: Cross Adapter - 3/4'' FIP Swivel X 3/4'' MIP X 3/4'' MIP X 3/4'' MHT w/ Cap
687-3SMKIT: Cross Adapter Kit - Includes 648-3SM / 687-3SMFH / 687-3SMMH
598-023: TankBracket™ Expansion tank support bracket

1 Tailpiece material is C693 on PEX F1807/F1960, and MSWT models, and is otherwise C46500. Materials are dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)
2 Valve material is C69300. Dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)

1 Box



2 Boxes
Stacked




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 34.5 min**
**H: ✓**

**2 Hr Walls:**
**F: 120 min**
**T: 58.5 min**
**H: ✓**

1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

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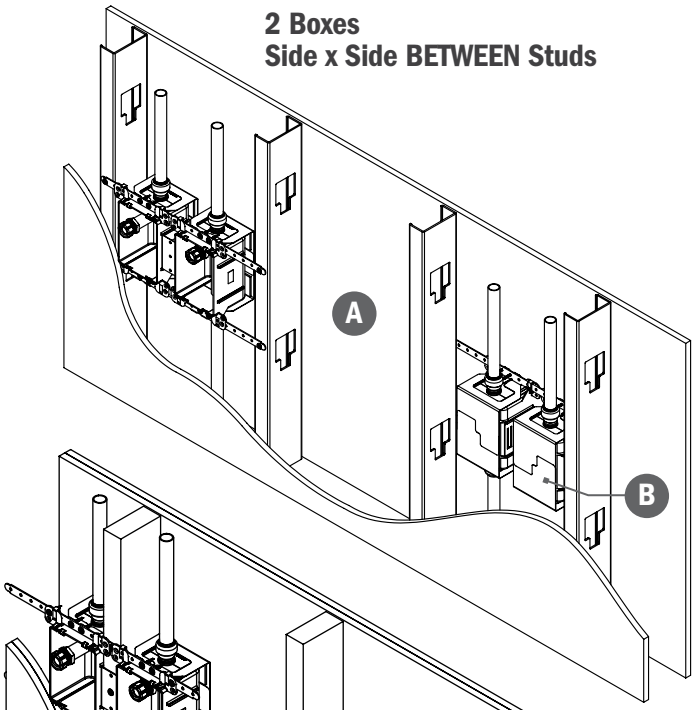
2 Boxes
Side x Side BETWEEN Studs




## ASTM E814

**1 Hr Walls:**
**F: 60 min**
**T: 27.5 min**
**H: ✓**

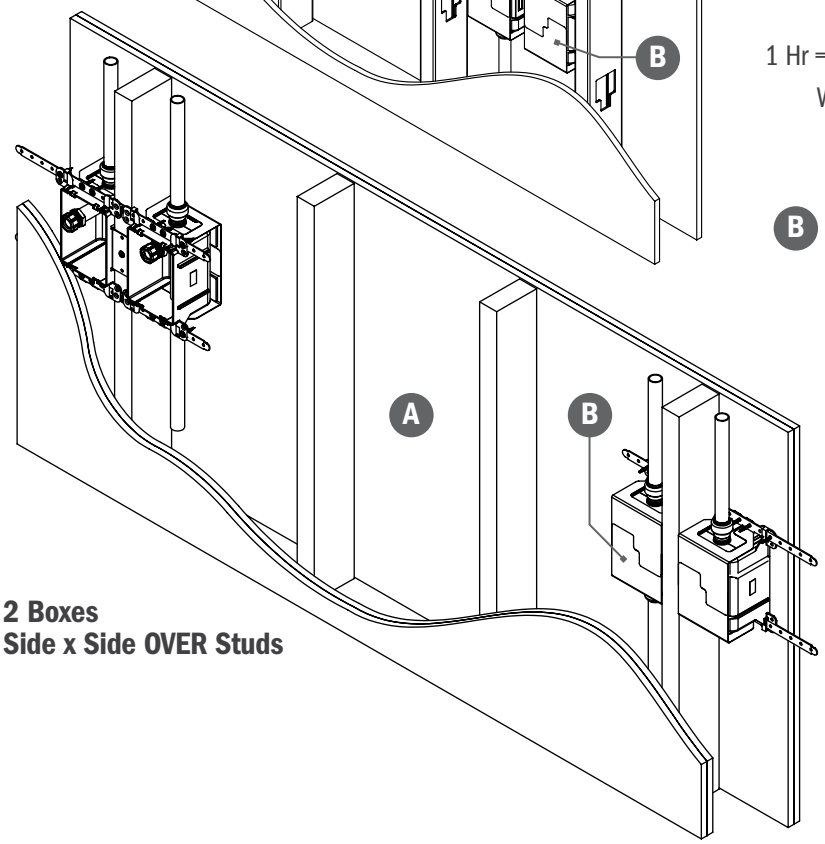
**2 Hr Walls:**
**F: 120 min**
**T: 60 min**
**H: ✓**

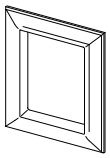
1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

B Interlocked metal fire-shield with intumescent pad

2 Boxes
Side x Side OVER Studs



No.
687-1F

Frames sold seperately

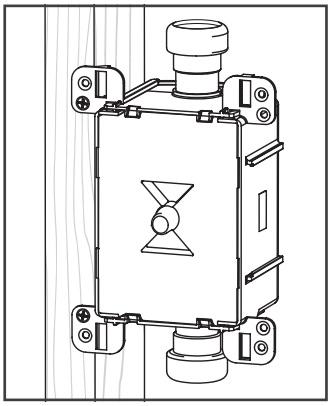
C QAI ® US
ASTM E814

# ServiceBox™

## Installation Guide

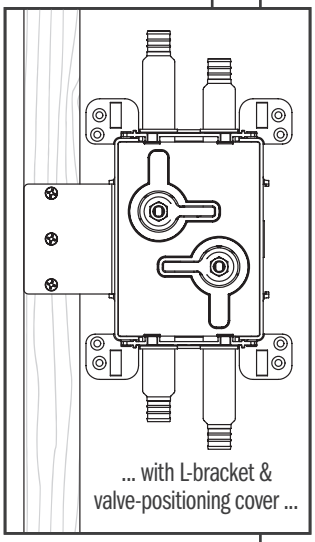
**NOTE:** If installing into Fire-Rated wall designs, refer to the Fire-Rated installation guide

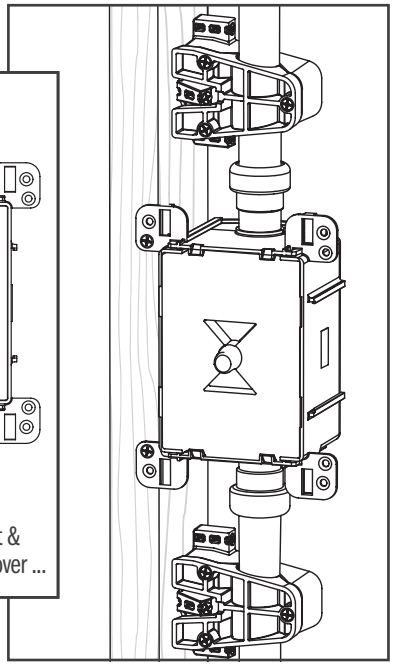
**1.** Be sure debris cover & valve-positioning cover (if included) are properly installed with valve captured.
**NOTE:** If combining multiple boxes side-by-side, use a box clip (item 696-BC, sold separately or included in a kit) to connect boxes



**2.** If a metal bracket is not provided, screw the box or box set directly to stud (recommended). If a metal bracket (L-shape or U-shape) is provided, secure it to box and attach to stud. The L-bracket (if included) positions connections away from stud for easier tool access.
**NOTE:** If installing between studs, insert a rigid, flat bracket into top/bottom track of box. Fasten bracket ends to studs.

**3.** Connect inlet and outlet lines. Make all connections per ASTM standards.
**NOTE:** ServiceBox models having valves with a drain port include a yellow flag label. Install with the flag label on the downstream side (house/dwelling side) of the valve.



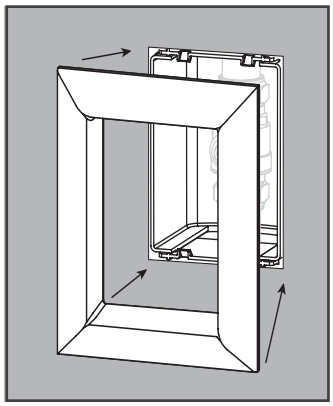



**4.** Be sure valve (if included) is in ON position and test all connections for leaks.
Replace any defective product.

**5.** If included, secure Mainblocks™ on inlet and/or outlet line. Install as close to the box as possible.

**6.** Flush the water line, downstream of the valve, before operation.

**7.** At finish, remove debris cover and check (again) for leaks. Keep valve-positioning cover installed if desired. Keep cover in place for Fire-Rated installations.
Install frame (item 687-1F, sold separately).



**8.** Enjoy the Peace of Mind from knowing you have installed a quality product, made from the best materials available.

⚠ **WARNING:** Cancer and Reproductive Harm
⚠ **ADVERTENCIA:** Cáncer y Daños Reproductivos
⚠ **AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction
**www.P65Warnings.ca.gov**

## Instrucciones de Instalación

**NOTA:** Si se instala en diseños de paredes resistentes al fuego, consulte la guía de instalación resistente al fuego.

1. Asegúrese de que la cubierta de residuos y la cubierta de posicionamiento de la válvula (si se incluye) estén correctamente instalado con la válvula capturada.
   **NOTA:** Si combina varias cajas una al lado de la otra, use un clip de caja (artículo 696-BC, vendido por separado o incluido en un kit) para conectar cajas
2. Si no se proporciona un soporte de metal, atornille la caja o el juego de cajas directamente al montante (recomendado). Si un bracket metálico (en forma de L o en forma de U), asegúrelo a la caja y fíjelo al montante. El soporte en L (si se incluye) coloca las conexiones lejos de perno para facilitar el acceso a la herramienta.
   **NOTA:** Si se instala entre montantes, inserte un soporte rígido y plano en pista superior/inferior de la caja. Fije los extremos del soporte a los montantes.
3. Conecte las líneas de entrada y salida. Hacer todas las conexiones según las normas ASTM.
   **NOTA:** Los modelos ServiceBox que tienen válvulas con un puerto de drenaje incluyen una etiqueta de bandera amarilla. Instalar con la etiqueta de la bandera en la parte inferior (lado de la casa/vivienda) de la válvula.
4. Asegúrese de que la válvula (si se incluye) esté en la posición de ENCENDIDO y pruebe todas las conexiones por fugas. Reemplace cualquier producto defectuoso.
5. Si se incluyen, asegure MainBlocks™ en línea de entrada y/o salida. Instalar lo más cerca a la caja como sea posible.
6. Enjuague la línea de agua, aguas abajo de la válvula, antes de la operación.
7. Enjuague la línea de agua, aguas abajo de la válvula, antes de la operación. Al terminar, retire la cubierta de desechos y verifique (nuevamente) que no haya fugas. Mantener cubierta de posicionamiento de válvula instalada si se desea. Mantener la cubierta en lugar para instalaciones resistentes al fuego. Instale el marco (artículo 687-1F, se vende por separado).
8. Disfrute de la tranquilidad de saber que ha instalado un producto de calidad, fabricado con los mejores materiales disponibles.

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## Instructions d'Installation

**REMARQUE:** En cas d'installation dans des conceptions murales coupe-feu, reportez-vous au guide d'installation coupe-feu.

1. Assurez-vous que le couvercle anti-débris et le couvercle de positionnement de la valve (le cas échéant) sont correctement installé avec la valve capturée.
   REMARQUE: si vous combinez plusieurs boîtes côte à côte, utilisez un clip de boîte (article 696-BC, vendu séparément ou inclus dans un kit) pour connecter des boîtiers
2. Si un support métallique n'est pas fourni, vissez le coffret ou le coffret directement au poteau (recommandé). Si un support métallique (en forme de L ou en forme de U) est fourni, fixez-le à la boîte et fixez-le au montant. Le support en L (si inclus) positionne les connexions loin de goujon pour un accès plus facile à l'outil.
   REMARQUE: En cas d'installation entre des montants, insérez un support rigide et plat dans voie supérieure/inférieure de la boîte. Fixez les extrémités des supports aux montants.
3. Connectez les lignes d'entrée et de sortie. Faire toutes les connexions selon les normes ASTM.
   REMARQUE : les modèles ServiceBox équipés de vannes avec un orifice de vidange comprennent une étiquette drapeau jaune. Installer avec l'étiquette du drapeau en aval côté (côté maison/logement) de la vanne.
4. Assurez-vous que la vanne (si incluse) est en position ON et testez toutes les connexions pour les fuites.
   Remplacer tout produit défectueux.
5. Si inclus, sécurisez Mainblocks™ sur ligne d'entrée et/ou de sortie. Installer au plus près à la boîte que possible.
6. Purger la ligne d'eau, en aval de la vanne, avant l'opération.
7. À la fin, retirez le couvercle de débris et vérifiez (encore) s'il y a des fuites. Donjon couvercle de positionnement de soupape installé si désiré. Gardez la couverture à l'intérieur endroit pour les installations coupe-feu.
   Installez le cadre (article 687-1F, vendu séparément).
8. Profitez de la tranquillité d'esprit en sachant que vous avez installé un produit de qualité, fabriqué à partir des meilleurs matériaux disponibles.

# ServiceBox™

## Fire-Rated Installation Guide

ASTM E814

### Note | Nota | Note

ServiceBox installations that require a F/T/H (Flame, Temperature and Hose Stream) rating should be referenced in the table below for box type, installation, and wall design. Illustrations (back) are for visual aid and do not represent all installation variations. Assemblies have been tested to ASTM E814. Assemblies can be installed on wood or metal studs, set 16" O.C.

**Assemblies that are not installed in walls that require F/T/H ratings do NOT need to have fire shields installed.**

Las instalaciones de ServiceBox que requieren una clasificación de F/T/H (llama, temperatura y flujo de manguera) deben consultarse en la siguiente tabla para el tipo de caja, la instalación y el diseño de la pared. Las ilustraciones (reverso) son para ayuda visual y no representan todas las variaciones de instalación. Los ensamblajes han sido probados según ASTM E814. Los ensamblajes se pueden instalar en montantes de madera o metal, colocados a 16" de centro a centro.

**Los ensambles que no están instalados en paredes que requieren clasificaciones F/T/H NO necesitan tener escudos contra incendios instalados.**

Les installations ServiceBox qui nécessitent une classification F/T/H (flamme, température et flux de tuyau) doivent être référencées dans le tableau ci-dessous pour le type de boîte, l'installation et la conception du mur. Les illustrations (verso) sont fournies à titre d'aide visuelle et ne représentent pas toutes les variantes d'installation. Les assemblages ont été testés selon la norme ASTM E814. Les assemblages peuvent être installés sur des montants en bois ou en métal, réglés à 16" c.

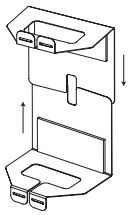
**Les assemblages qui ne sont pas installés dans des murs nécessitant des cotes F/T/H n'ont PAS besoin d'avoir des pare-feu installés.**

### For Full F/T/H Rating per ASTM E814 | Para Clasificación Completa F/T/H Según ASTM E814 | Pour une Cote F/T/H Complète selon la norme ASTM E814

#### Fire Shield Installation:

1. Place shields around inlet and outlet of box*
2. Slide flat bracket or bar (not included) through top and bottom tracks of box.
3. Set box in desired location. Mounting box and bracket directly to stud is recommended.
4. Install a #8 x 1/2" long pan head screw through bracket and shield to lock shield into place. Using longer screws may damage connection.

*Interlock shields at back of box using open slots.



#### Instalación de Escudo Contra Incendios:

1. Coloque protectores alrededor de la entrada y la salida de la caja. Interbloquee los escudos en la parte posterior de la caja usando las ranuras abiertas.
2. Deslice el soporte plano o la barra (no incluidos) a través de los rieles superior e inferior de la caja.
3. Coloque la caja en la ubicación deseada. Se recomienda montar la caja y el soporte directamente en el montante.
4. Instale un tornillo de cabeza troncocónica #8 x 1/2" de largo a través del soporte y el protector para bloquear el protector en su lugar. El uso de tornillos más largos puede dañar la conexión.

#### Installation du Pare-Feu:

1. Placez des protections autour de l'entrée et de la sortie de la boîte. Verrouillez les écrans à l'arrière de la boîte à l'aide de fentes ouvertes.
2. Faites glisser le support plat ou la barre (non inclus) dans les rails supérieurs et inférieurs de la boîte.
3. Placez la boîte à l'emplacement souhaité. Il est recommandé de monter la boîte et le support directement sur le montant.
4. Installez une vis à tête cylindrique longue #8 x 1/2" à travers le support et le blindage pour verrouiller le blindage en place. L'utilisation de vis plus longues peut endommager la connexion.

| INSTALLATION TYPE<br>TIPO DE INSTALACIÓN<br>TYPE D'INSTALLATION | F/T<br>1 Hr. | F/T<br>2 Hr. | H | Installation Notes<br>Notas de Instalación<br>Notes d'Installation |
|---|---|---|---|---|
| 1 Box<br>1 Caja<br>1 Boîte — Fig. 1 | F: 60 min<br>T: 34.5 min | F: 120 min<br>T: 58.5 min | ✓ | Wood or steel studs (25 GA min.)<br>Montantes de madera o acero<br>Montants en bois ou en acier<br><br>No back-to-back installations<br>No instalaciones espalda con espalda<br>Aucune installation dos à dos<br><br>NO penetrations in adjacent stud cavity<br>SIN penetraciones en la cavidad del montante adyacente<br>AUCUNE pénétration dans la cavité du montant adjacent |
| 2 Boxes<br>2 Cajas<br>2 Boîtes — Fig. 2 | | | ✓ | |
| 2 Boxes<br>2 Cajas<br>2 Boîtes — Fig. 3 | F: 60 min<br>T: 27.5 min | F: 120 min<br>T: 60 min | ✓ | |
| 2 Boxes<br>2 Cajas<br>2 Boîtes — Fig. 4 | | | ✓ | |

Wood or steel studs / Stud Cavity: 16" O.C. / T = Temperature Rating per ASTM E-814 / H = Hose Stream / F & T: 1 Hr. = 1 layer of 5/8" gypsum; 2 Hr. = 2 layers of 5/8" gypsum

Montantes de madera o acero / Cavidad del montante: 16" de centro a centro / T = Clasificación de temperatura según ASTM E-814 / H = Chorro de manguera / F & T: 1 Hr. = 1 capa de yeso de 5/8"; 2 horas = 2 capas de yeso de 5/8"

Montants en bois ou en acier / Cavité du goujon : 16" c. / T = température nominale selon ASTM E-814 / H = tuyau d'arrosage / F & T : 1 heure. = 1 couche de gypse 5/8" ; 2 h. = 2 couches de gypse 5/8"

**Fig. 1**

1 Box
1 Caja
1 Boîte

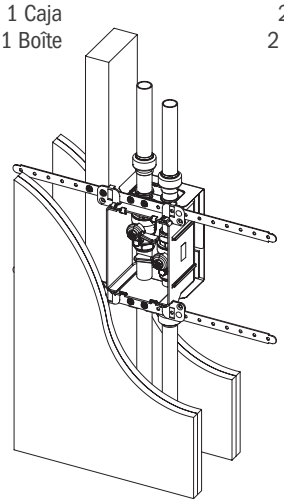
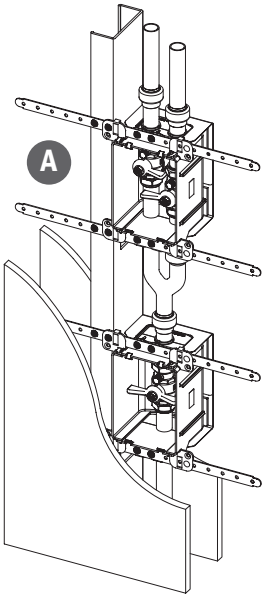


**Fig. 2**

2 Boxes - Stacked
2 Cajas - Apiladas
2 Boîtes - Empilées




**1 Hr:**
**F: 60 min**
**T: 34.5 min**
**H: ✓**

**2 Hr:**
**F: 120 min**
**T: 58.5 min**
**H: ✓**

1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
1 hora = 1 capa de 5/8" cada cara | 2 horas = 2 capas de 5/8" cada cara
1 Hr = 1 couche 5/8" chaque face | 2 Hr = 2 couches 5/8" chaque face

Wood or Steel Studs | No back-to-back installations
Montantes de madera o acero | No instalaciones espalda con espalda
Montants en bois ou en acier | Aucune installations dos à dos

A NO penetrations in adjacent stud cavity
SIN penetraciones en la cavidad del montante adyacente
AUCUNE pénétration dans la cavité du montant adjacent

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**Fig. 3**

2 Boxes - Side x Side between studs
2 Cajas - Lado a lado entre montantes
2 Boîtes - Côte à côte entre montants

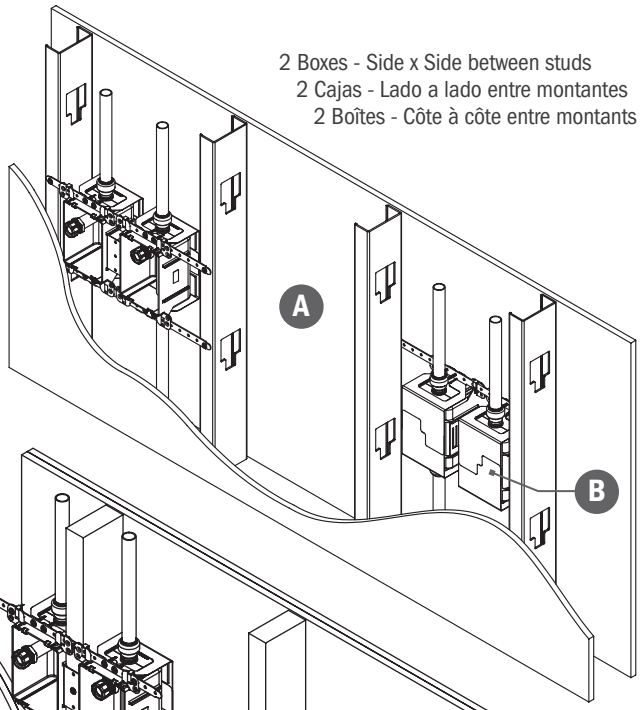
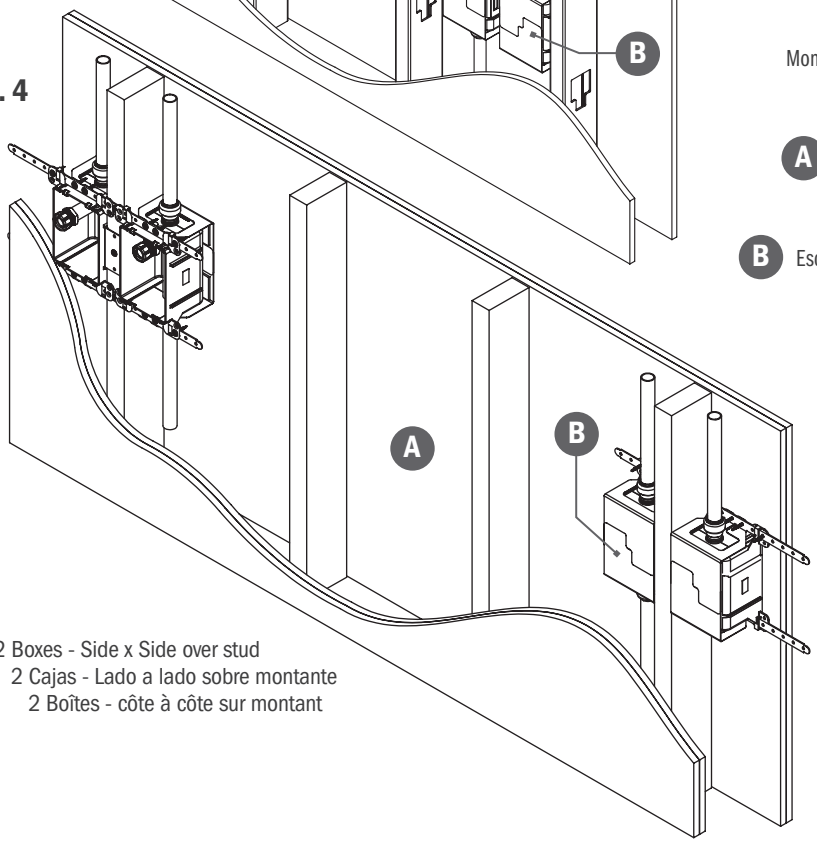



**Fig. 4**




2 Boxes - Side x Side over stud
2 Cajas - Lado a lado sobre montante
2 Boîtes - côte à côte sur montant

**1 Hr:**
**F: 60 min**
**T: 27.5 min**
**H: ✓**

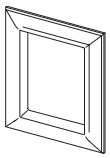
**2 Hr:**
**F: 120 min**
**T: 60 min**
**H: ✓**

1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face
1 hora = 1 capa de 5/8" cada cara | 2 horas = 2 capas de 5/8" cada cara
1 Hr = 1 couche 5/8" chaque face | 2 Hr = 2 couches 5/8" chaque face

Wood or Steel Studs | No back-to-back installations
Montantes de madera o acero | No instalaciones espalda con espalda
Montants en bois ou en acier | Aucune installations dos à dos

A NO penetrations in adjacent stud cavity
SIN penetraciones en la cavidad del montante adyacente
AUCUNE pénétration dans la cavité du montant adjacent

B Interlocked metal fire-shield with intumescent pad
Escudo ignífugo de metal entrelazado con almohadilla intumescente
Pare-feu métallique emboîtable avec coussinet intumescent



No.
687-1F

Frames sold seperately
Marcos se venden por separado | Cadres vendus séparément

QAI C US
ASTM E814

# Installation Instructions

## 648 Series Pressure-Reducing Valve

**Before installation, consult local and jurisdictional plumbing codes.**
**Always install per local codes, using proper plumbing methods. Test all connections before use.**
Read and keep these instructions for maintenance records.
Failure to follow these instructions could result in personal injury or property damage

- Valves are shipped with factory setting of 60 PSI
- Valves are made with dezincification resistant and stress-corrosion cracking resistant materials.
- PRV is suited for installation in remote or damp areas including outdoors or within a 'service pit'
- Every valve should be regularly inspected. Sioux Chief recommends yearly inspection.

# Instrucciones de Instalación

## Serie 648 Válvula Reductora de Presión

**Antes de la instalación, consulte los códigos de plomería locales y jurisdiccionales.**
**Realice siempre la instalación según los códigos locales y mediante métodos de plomería correctos.**
**Antes de usar la instalación, pruebe todas las conexiones.**
Lea y conserve estas instrucciones para sus registros de mantenimiento.
No seguir estas instrucciones podría ocasionar lesiones corporales o daño a la propiedad.

- Las válvulas se despachan con una configuración de fábrica de 60 PSI
- Las válvulas se fabrican con materiales resistentes al descincado y al agrietamiento por corrosión y esfuerzo.
- La válvula es adecuada para la instalación en áreas remotas o húmedas como al aire libre o dentro de una fosa de servicio
- La válvula debe inspeccionarse regularmente. Sioux Chief recomienda una inspección anual.

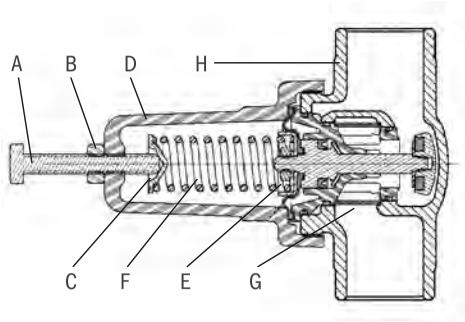
# Instructions d'Installation

## Série 648 Soupape de Réduction de Pression

**Avant l'installation, consulter les codes de plomberie locaux et en vigueur dans la juridiction.**
**Toujours installer conformément aux codes locaux en utilisant les méthodes de plomberie appropriées**
**Tester tous les raccords avant l'utilisation.**
Lire et conserver ces instructions pour les dossiers d'entretien.
Le non-respect de ces instructions peut entraîner des blessures ou des dommages matériels.

- Les soupapes sont expédiées avec un réglage en usine de 60 psi (2,8 kPa)
- Les soupapes sont fabriquées avec des matériaux résistants à la dézincification et aux fissures dues aux contraintes et à la corrosion
- La soupape convient aux installations dans des zones éloignées ou humides, y compris à l'extérieur ou dans une « fosse de service »
- Il convient d'inspecter régulièrement la soupape. Sioux Chief recommande une inspection annuelle.

## Components
## Componentes
## Composants

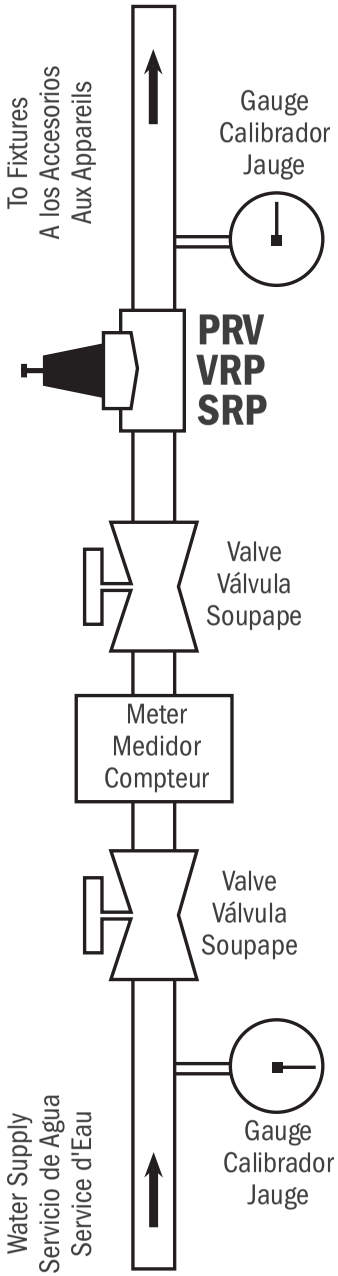



A: Adjustment screw
B: Locknut
C: Spring button
D: Nylon cap
E: Module/Actuator assembly
F: Spring
G: Screen
H: Valve body

A: Tornillo de Ajuste
B: Tuerca de Bloqueo
C: Botón de Resorte
D: Gorra de Nailon
E: Conjunto de Módulo/Actuador
F: Resorte
G: Pantalla
H: Cuerpo de la Válvula

A: Vis de Réglage
B: Contre-Écrou
C: Bouton à Ressort
D: Capuchon en Nylon
E: Ensemble Module/Actionneur
F: Ressort
G: Écran
H: Corps de Soupape

## Typical Installation
## Instalación Típica
## Installation Typique



## General Installation

1. Install the valve for access to the working components. Accessibility should allow for service, repair, general maintenance, cleaning and adjustment.
2. All connections to the device should be made per ASTM standards with compliant materials and processes. For specific installation requirements to make a PEX joint or for Push joints, refer to their respective installation instructions and manuals.
3. Make sure all lines are free of debris and are flushed of foreign matter that may foul the device.
4. Each valve has a flow arrow indicating proper installation.
5. The PRV can be installed at any angle. Horizontal or vertical and can be installed inverted.
6. Inspect all connections for leaks. Test with water.
7. During testing or during first operation, slowly open cold water and then hot lines.
   Plastic cap is factory tightened. If there is a leak, be sure the seal has not been damaged. Disassembly can be performed to inspect the seat seal.
   - When installing valves in place of PVC spacers (from 687 Series ServiceBox™ products), be sure the LDPE seal is not damaged. Replace any damaged seal.
   - Hand-tighten the retention union nut firmly. Tighten additional ¼-turn with wrench.

## Maintenance Instructions

1. The strainer may need to be cleaned to clear off sediment or build up.
2. Shut off water
3. Back off locknut and adjustment screw. Note the screw position for re-tightening and re-setting pressure after maintenance.
4. Unscrew the black cap. Keep spring and spring button for re-installation.
5. Pull free the gland by holding tightly from center nut and pulling the assembly from the PRV.
6. Remove the screen from the recess and clean.
7. Follow these above steps in reverse order for replacement of the module. See cut-away for proper placement of components.
8. Re-adjustment of water pressure will be necessary. If your model has a service port, a gauge can be applied, otherwise use a gauge and measure from a downstream tap.

## Adjustment

1. Loosen upper locknut on adjustment screw.
2. Turn screw to adjust pressure:
   Clockwise to increase pressure | Counterclockwise to decrease pressure

## CAUTION

Do Not adjust screw all the way down. Always use a pressure gauge to verify all pressures. If the PRV includes a service port, a gauge can be connected directly, otherwise use a secondary gauge to measure from a downstream outlet.

## Instalación General

1. Instale la válvula de manera que pueda accederse a los componentes en funcionamiento. La facilidad de acceso debe permitir el servicio, la reparación, el mantenimiento general, la limpieza y el ajuste.
2. Todas las conexiones al dispositivo deben hacerse según las normas ASTM con materiales y procesos aprobados. Para los requisitos de instalación específicos para hacer una junta de PEX o juntas de empuje, consulte los manuales respectivos y las instrucciones de instalación.
3. Verifique que todas las tuberías estén libres de residuos y que se haya purgado todo material extraño que pueda perjudicar el dispositivo.
4. Cada válvula incluye una flecha de flujo que indica la instalación correcta.
5. La válvula reductora de presión (VRP) puede instalarse a cualquier ángulo, horizontal o verticalmente y puede instalarse invertida.
6. Inspeccione las conexiones para detectar fugas. Pruébelas con agua.
7. Durante la prueba o el primer arranque, abra lentamente la tubería de agua fría y luego la de agua caliente.
   La tapa de plástico se ha ajustado en la fábrica. Si hay alguna fuga, verifique que no se haya dañado el sello. Se puede desarmar la unidad para inspeccionar el sello de asiento.
   - Al instalar válvulas en lugar de espaciadores de plástico (de los productos ServiceBox™ de la serie 687), asegúrese de que el sello de LDPE no esté dañado.
     Reemplace todo sello dañado.
   - Apriete a mano firmemente la tuerca de la unión de retención. Apriete 1/4 de vuelta adicional con una llave.

## Instrucciones de Mantenimiento

1. Es posible que deba limpiarse el colador para eliminar los sedimentos o la acumulación.
2. Cierre el agua
3. Afloje la contratuerca y el tornillo de ajuste. Anote la posición del tornillo para volver a apretarlo y para ajustar la presión después del mantenimiento.
4. Desenrosque la tapa negra. Conserve el resorte y el botón del resorte para la reinstalación.
5. Tire del casquillo para liberarlo de la tuerca central, sujetándolo firmemente y extrayendo el conjunto de la válvula.
6. Retire la rejilla de la cavidad y límpiela.
7. Siga los pasos anteriores en sentido inverso para volver a colocar el módulo. Consulte la vista seccionada para la correcta colocación de los componentes.
8. Será necesario reajustar la presión de agua. Si su modelo tiene un puerto de servicio, puede aplicarle un manómetro; de lo contrario, use un manómetro y mida desde un grifo corriente abajo.

## Ajustamiento

1. Afloje la contratuerca superior del tornillo de ajuste.
2. Gire el tornillo para ajustar la presión: En sentido de las manecillas del reloj para aumentar la presión | en sentido contrario de las manecillas del reloj para reducir la presión.

## PRECAUCIÓN

No apriete el tornillo totalmente hacia abajo. Use siempre un manómetro para verificar todas las presiones. Si la válvula tiene un puerto de servicio, se puede conectar un manómetro directamente; de lo contrario, use un manómetro para medir desde una salida corriente abajo

## Installation Générale

1. Installer la soupape pour pouvoir accéder aux composantes fonctionnelles. La soupape doit être accessible pour permettre le service, les réparations, l'entretien général, le nettoyage et les réglages.
2. Toutes les connexions au dispositif doivent se faire conformément aux normes ASTM avec des matériaux et des procédés conformes. Pour les exigences d'installation spécifiques pour réaliser un joint en PEX ou pour des joints-poussoir, se référer aux instructions d'installation et aux manuels respectifs.
3. Veiller à ce que toutes les conduites soient exemptes de débris et à ce que tous les corps étrangers qui pourraient encrasser le dispositif soient rincés.
4. Chaque soupape est dotée d'une flèche qui indique le sensapproprié d'écoulement pour l'installation.
5. La soupape de réduction de pression peut être installée à un angle quelconque, horizontalement ou verticalement, et elle peut être installée renversée.
6. Inspecter tous les raccords pour déceler des fuites. Tester à l'eau.
7. Pendant le test ou pendant la première utilisation, ouvrir lentement l'eau froide, puis les conduites d'eau chaude.
   Le bouchon en plastique est serré en usine. S'il y a une fuite, vérifier que le joint n'a pas été endommagé. Il est possible d'effectuer un démontage pour inspecter le siège du joint.
   - Lors de l'installation de soupapes au lieu d'entretoises en plastique (produits ServiceBoxJ de la série 687), veiller à ce que le joint en LDPE ne soit pas endommagé.
     Remplacer tout joint endommagé.
   - Serrer fermement à la main l'écrou du raccord de rétention.
     Serrer d'un 1/4 de tour de plus avec une clé.

## Consignes d'Entretien

1. Il est possible que la crépine doive être nettoyée pour éliminer tout sédiment ou accumulation.
2. Couper l'arrivée d'eau.
3. Desserrer le contre-écrou et la vis de réglage. Noter la position de la vis pour le resserrage et le réglage de la pression après l'entretien.
4. Dévisser le bouchon noir. Conserver le ressort et le bouton à ressort pour les réinstaller.
5. Libérer le presse-étoupe de l'écrou central en maintenant fermement et en extrayant l'ensemble de la soupape.
6. Retirer le filtre du logement et le nettoyer.
7. Suivre les étapes ci-dessus dans l'ordre inverse pour remettre le module en place. Voir la vue en coupe pour connaître le placement approprié des composantes.
8. Il sera nécessaire de régler à nouveau la pression d'eau. Si votre modèle comporte un orifice de service, il est possible d'y mettre un manomètre ; sinon, utiliser un manomètre et mesurer à partir d'un robinet placé en aval.

## Ajustement

1. Desserrer le contre-écrou supérieur de la vis de réglage.
2. Tourner la vis pour régler la pression: Dans le sens horaire pour augmenter la pression | Dans le sens antihoraire pour diminuer la pression

## MISE EN GARDE

Ne pas enfoncer la vis à fond lors du réglage. Toujours utiliser un manomètre pour vérifier toutes les pressions. Si la soupape comporte un orifice de service, il est possible de brancher un manomètre directement ; sinon, utiliser un manomètre pour mesurer à partir d'un robinet placé en aval.

# 687-442XB

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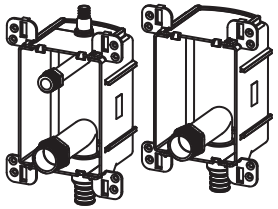
**Caja de Acceso al Suavizador de Agua**
**Boîte d'Accès au Adoucisseur d'Eau**



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# Individual Box Label


# Closure Label

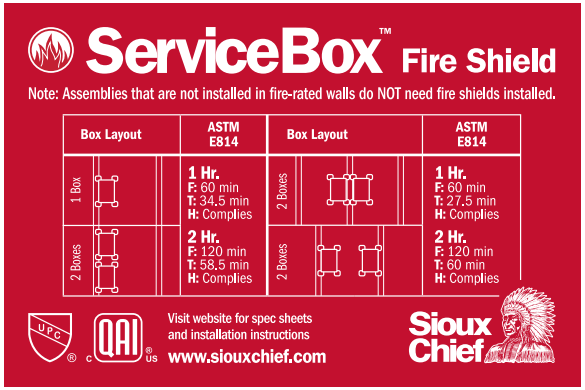
(keeps cover plate in place on box)



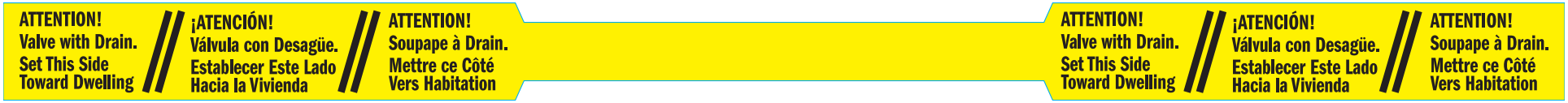




# Individual Boxes

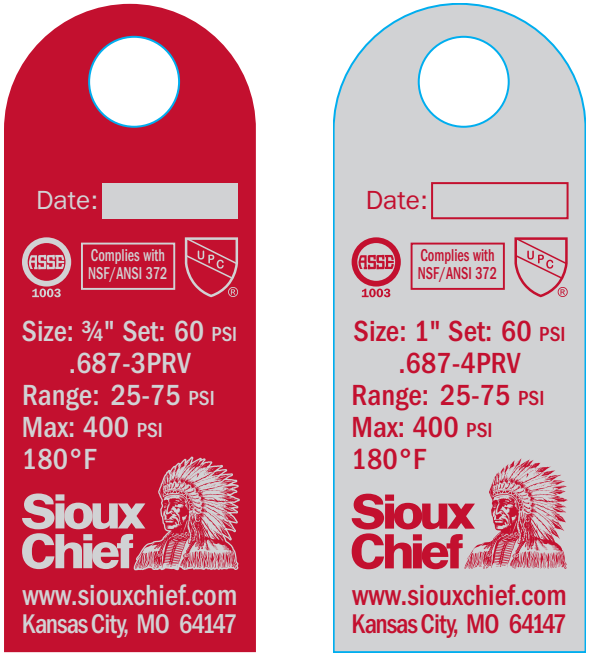



# Fire Shield Label




# Service Valve Flag Label


# Water Softener Flag Labels




# PRV Valve Tags

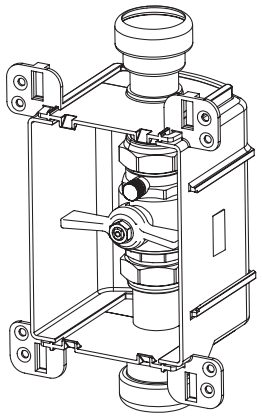
## ServiceBox™
### Ball Valve Access Box

Union valve connection

Fits OxBox™ frames and accessories

All common inlet and outlet connection types

Available in sizes ½" thru 1¼"

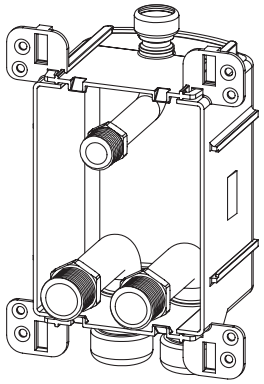


## ServiceBox™
### Water Softener Access Box

Provides convenient access for water softener connection

Solid, Consistent, & Professional-Looking

Designed with the Best Materials Available

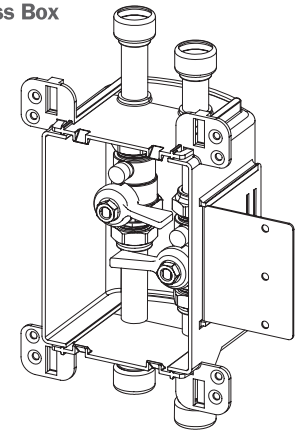


## ServiceBox™
### Dual-Valve Access Box

Available with forward-facing ports

Available in ½" and ¾" sizes

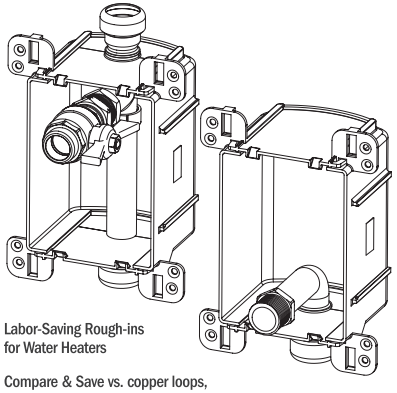
Use provided bracket to standoff stud for PEX Crimp connections



# Front

# Back

## ServiceBox™
### Water Heater Access Box



Labor-Saving Rough-ins for Water Heaters

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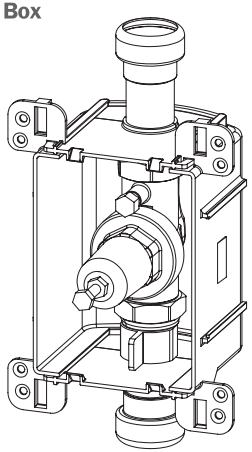
## ServiceBox™
### PRV Access Box

Includes PRV with Union Connections

Models available with assembled PRV or with PVC spacer assembled and PRV separate

All common inlet and outlet connection types

Available in ¾" and 1" sizes



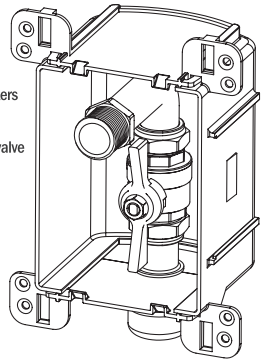
## ServiceBox™
### Valve Termination Box

Perfect for water heaters or other appliances

Full-Flow elbow and valve

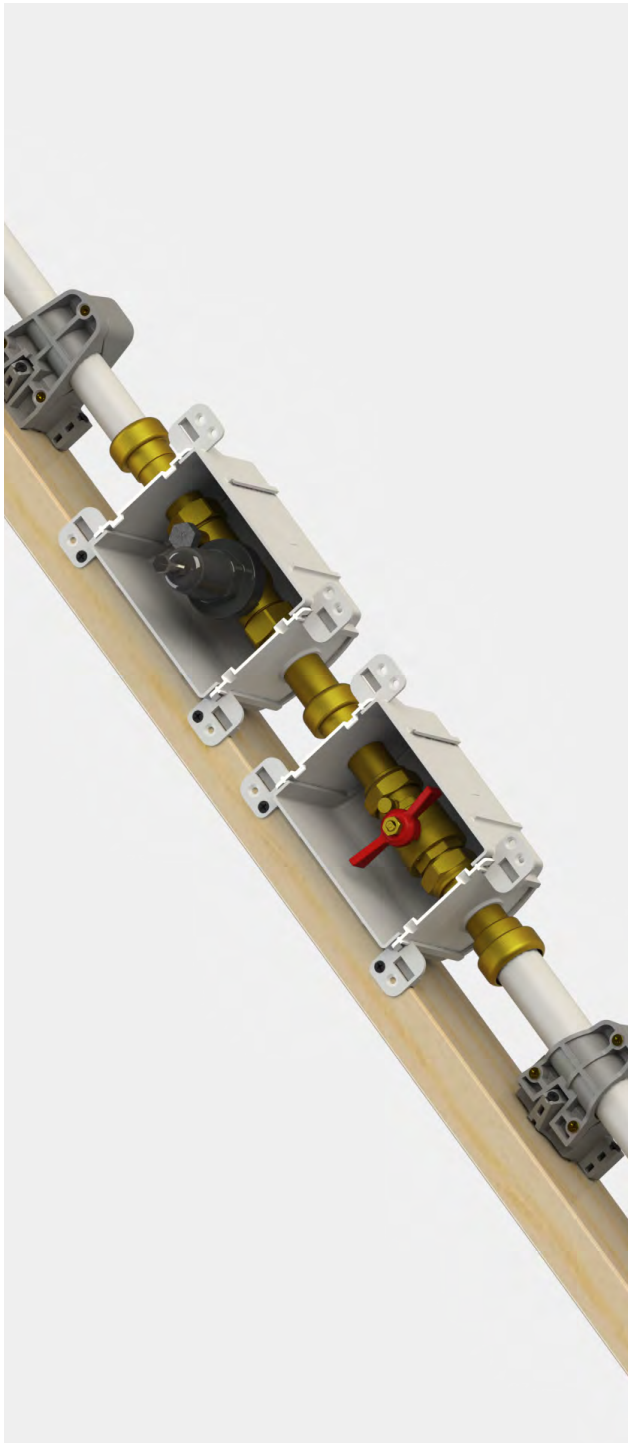
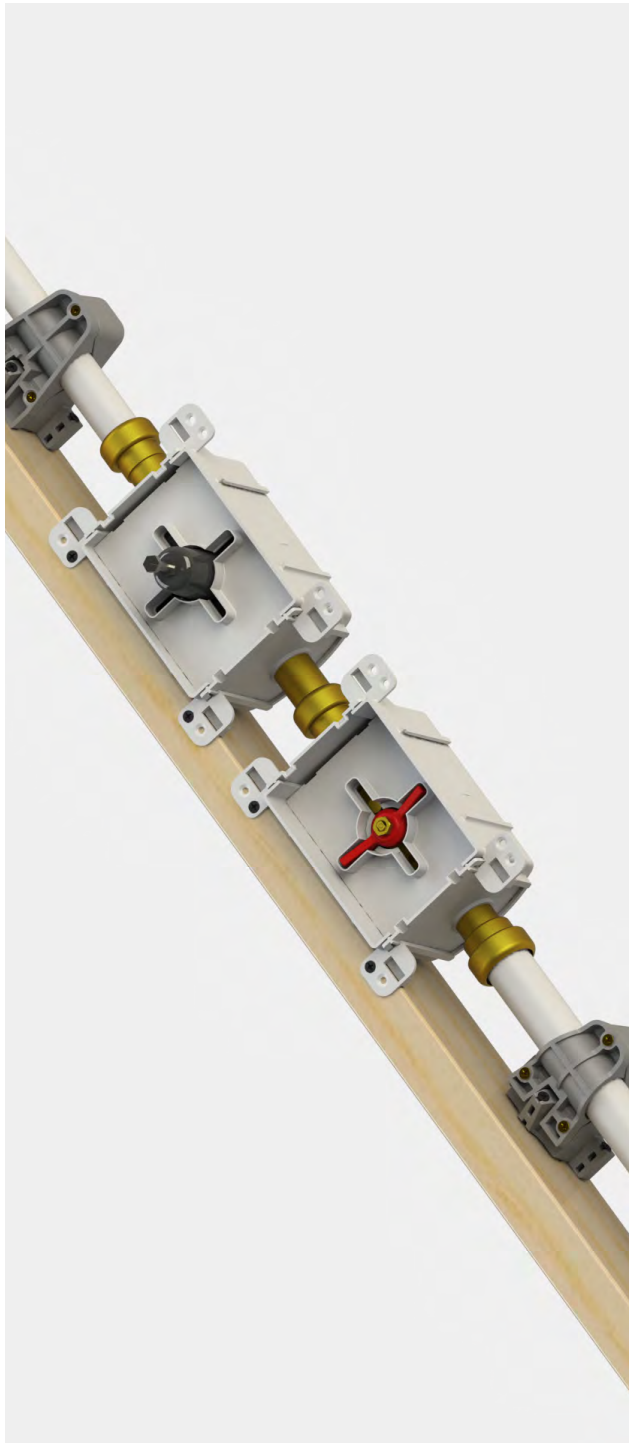
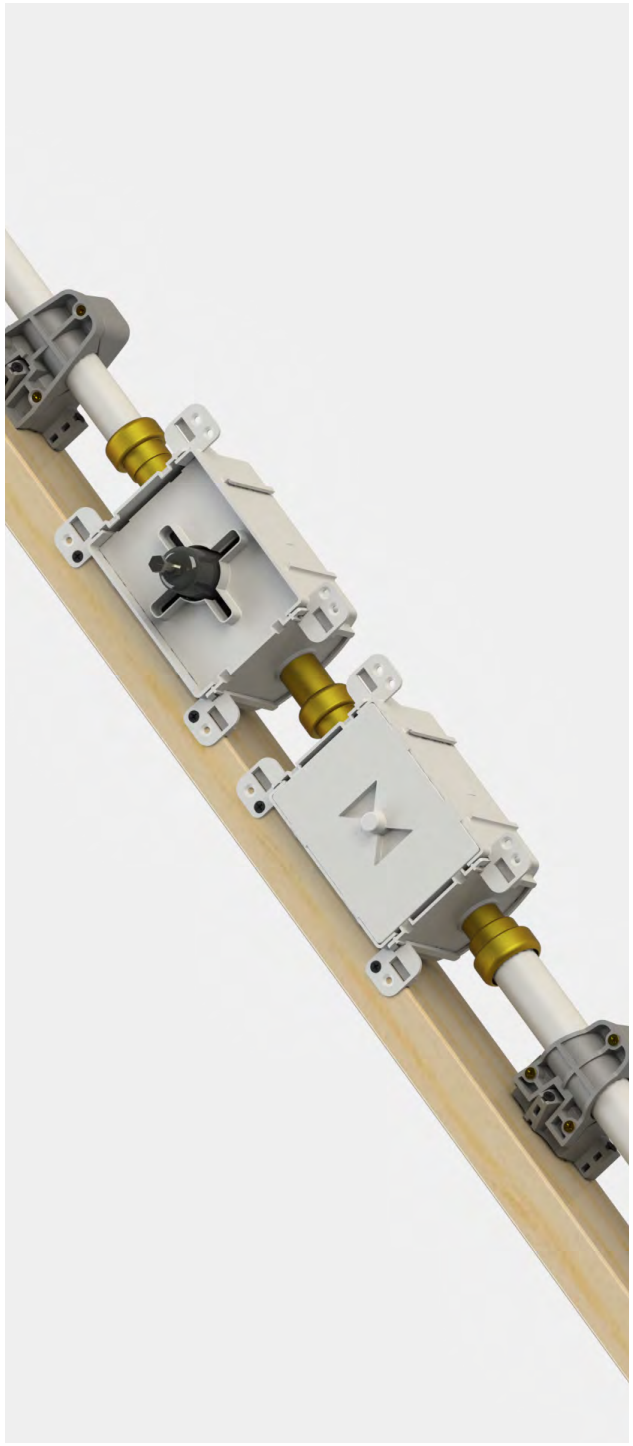
Solid, Consistent, & Professional-Looking

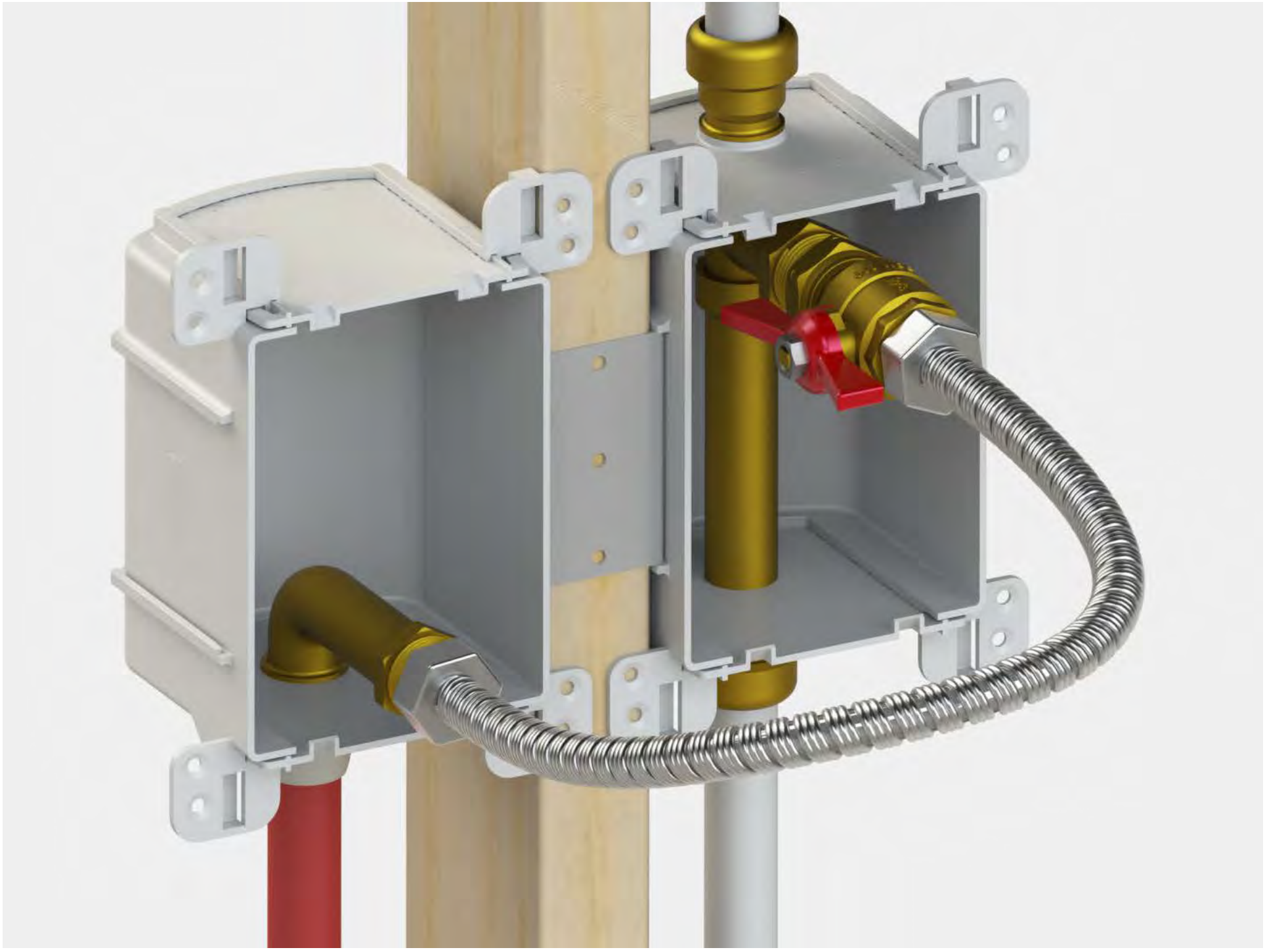
Designed with the Best Materials Available



# Tri-Folded Insert

(folded/inserted under box cover plates)




Rough-In


Finish