

### SHOWER TRIM MODEL: 0100-3501-L/HD-TRM SPECIFICATION SUBMITTAL

#### FEATURE HIGHLIGHTS

Shower Trim shall include metal lever handle and shower arm with decorative flange. Shower Trim shall be metal construction plated in standard polished chrome finish.

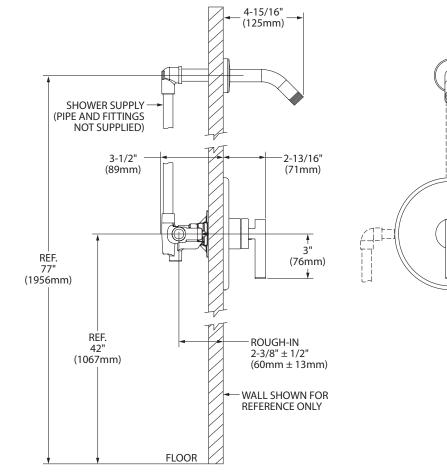
#### COMPLIANCE

• ASME A112.18.1/CSA B125.1

#### WARRANTY

**5 Years** - for industrial/commercial installations. Refer to symmons.com/warranty for complete warranty information.

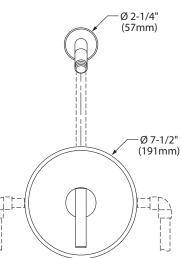
#### DIMENSIONS



Note: Dimensions subject to change without notice.













### TUB/SHOWER TRIM MODEL: 0100-3502-L/HD-SS-TRM INSTALLATION GUIDE

#### FEATURE HIGHLIGHTS

Tub/Shower Trim shall include metal lever handle, shower arm with decorative flange and diverter tub spout with slip spout connection. Tub/Shower Trim shall be metal construction plated in standard polished chrome finish.

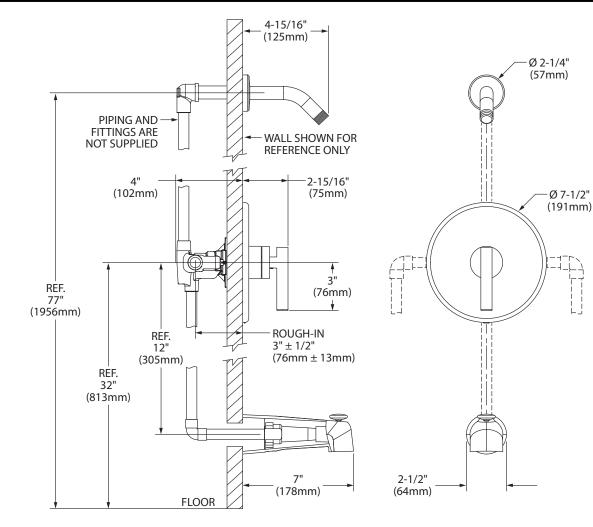
#### COMPLIANCE

• ASME A112.18.1/CSA B125.1

#### WARRANTY

**5 Years** - for industrial/commercial installations. Refer to symmons.com/warranty for complete warranty information.

#### DIMENSIONS

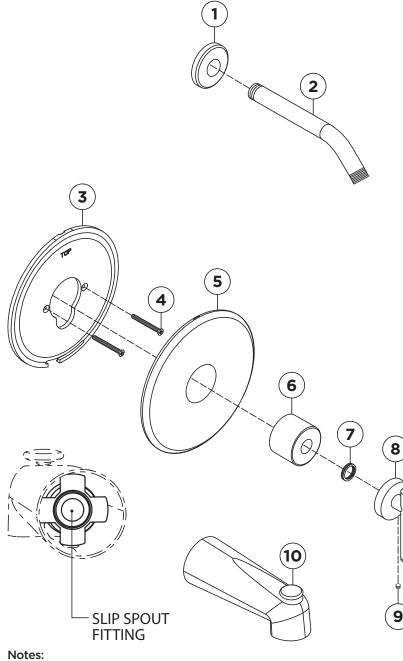


Note: Dimensions subject to change without notice.





#### INSTALLATION/PARTS BREAKDOWN



Item	Description	Part Number
1 2	Flange Shower Arm	300
3 4 5	Mounting Plate Mounting Screws Shower Escutcheon	RTS-025
6 7	Dome Cover Lock Nut	T-19/20
8 9	Handle Set Screw	T-242A
9	Set Screw	S2H-8D
10	Tub Spout	057

Tools Required		
Adjustable Wrench		
Allen Wrench: Handle (3/16")		
Phillips Head Screwdriver		
Plumber Tape		
Silicone		

- 1) Apply a bead of silicone around the perimeter of all shower trim installed flush to the finished wall (less mounting plates and brackets). Leave opening on bottom of escutcheon for weep hole.
- 2) Apply plumber tape to threaded connections as necessary.

**WARNING:** This product can expose you to chemicals including lead, which is known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.



### SHOWER/HAND SHOWER TRIM MODEL: 0100-3505-L/HD-L/HS-TRM SPECIFICATION SUBMITTAL

#### FEATURE HIGHLIGHTS

Shower/Hand Shower Trim shall include metal lever handles, shower arm with decorative flange, hand shower coupling with flange and in-line vacuum breaker.

Shower/Hand Shower Trim shall be metal construction plated in standard polished chrome finish.

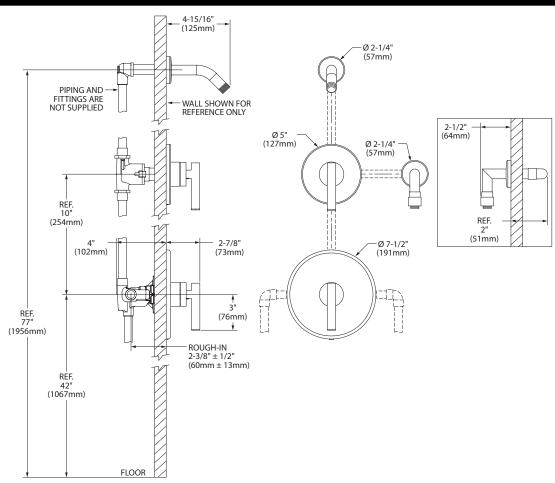
#### COMPLIANCE

- ASME A112.18.1/CSA B125.1
- ASSE 1014 (in-line vacuum breaker for back flow protection)

#### WARRANTY

**5 Years** - for industrial/commercial installations. Refer to symmons.com/warranty for complete warranty information.

#### DIMENSIONS



Note: Dimensions subject to change without notice.







#### TUB/SHOWER/HAND SHOWER TRIM MODEL: 0100-3506-SS-TRM SPECIFICATION SUBMITTAL

#### FEATURE HIGHLIGHTS

Tub/Shower/Hand Shower Trim shall include metal lever handles, shower arm with decorative flange, hand shower coupling with flange, in-line vacuum breaker and diverter tub spout with slip spout connection. Tub/Shower/Hand Shower Trim shall be metal construction plated in standard polished chrome finish.

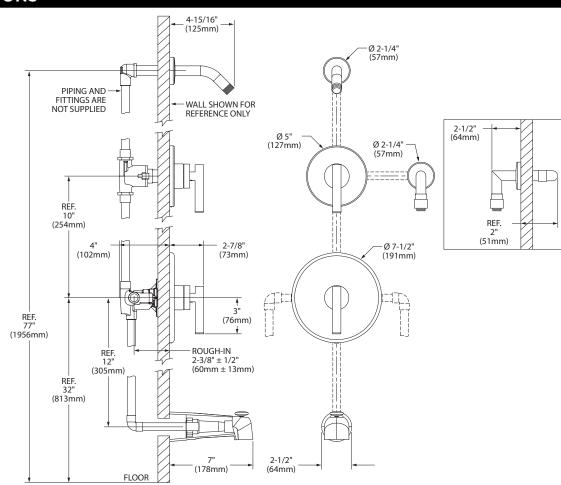
#### COMPLIANCE

- ASME A112.18.1/CSA B125.1
- ASSE 1014 (in-line vacuum breaker for back flow protection)

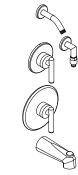
#### WARRANTY

**5 Years** - for industrial/commercial installations. Refer to symmons.com/warranty for complete warranty information.

#### DIMENSIONS



Note: Dimensions subject to change without notice.









## Wall Mounted Slide/Grab Bar & ADA Hand Shower with non-positive shut-off T724, T736, T748 Series Installation Guide



#### **Model Numbers**

#### T724

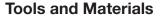
24 inch slide/grab bar with polished chrome or satin nickel ADA hand shower

#### T736

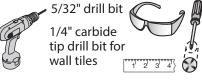
36 inch slide/grab bar with polished chrome or satin nickel ADA hand shower

#### T748

48 inch slide/grab bar with polished chrome or satin nickel ADA hand shower



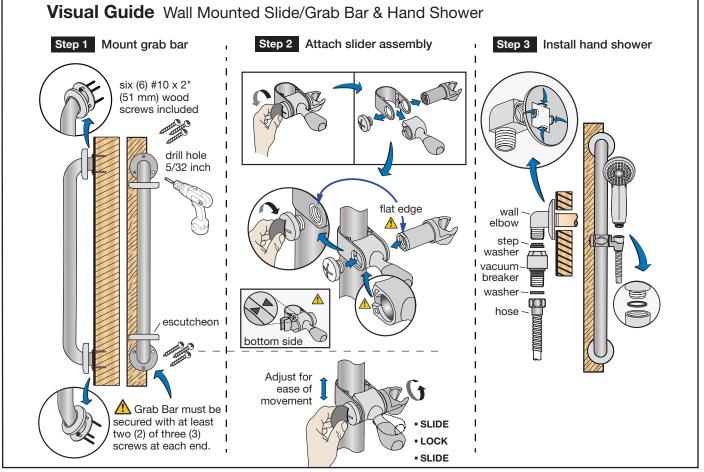
-ASME A112.18.1/CSA B125.1



#### Meed Help?

Symmons customer service: Phone: (800) 796-6667 gethelp@symmons.com Mon - Fri 7:30 am - 7:00 pm EST

- www.symmons.com/service
- Technical help
- Product information
- Warranty policy



For California Residents

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

## -WaterSense 1.5 gpm and 2.0 gpm

Compliance

#### **Installation Notes**

#### **Grab Bar Location**

For proper mounting heights and location consult with your state and local code official having jurisdiction over the installation.

#### Solid Support

- Grab Bar must be mounted with both ends positioned over a wall stud. A stud finder can be used to locate wall studs.
- Secure through wall board or tile to the wall stud so as to hold a minimum of 250 pounds of force.
- At least two (2) of the three (3) screws provided must be used on each end of the Grab Bar to properly secure.
   Note: Standard size wall stud limits using more than two (2) screws.

#### **Mounting Grab Bar**

- Drill all holes through wall board into wood wall studs using a power drill and a 5/32 inch drill bit.
- Ceramic tiles If installing Grab Bar

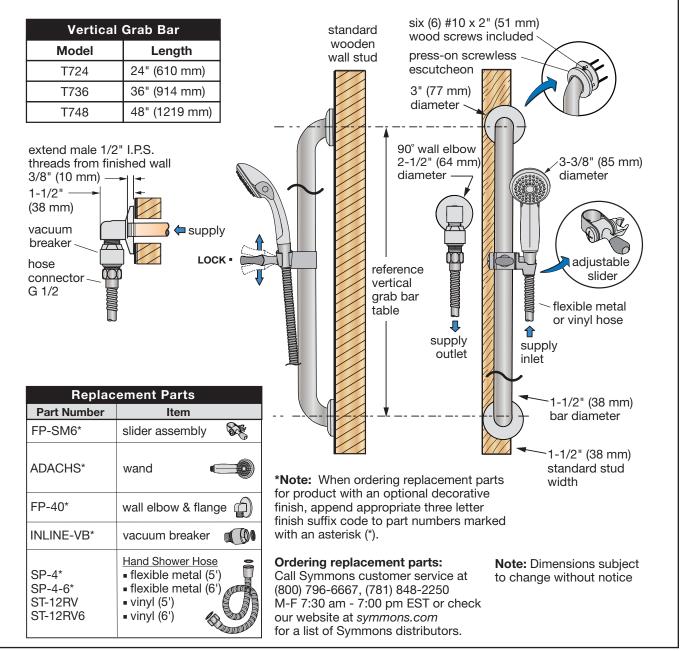
over ceramic tiles, first drill a pilot hole through the tile using a 1/4 inch carbide tip drill bit to prevent damage to the tiles.

Next, drill a pilot hole into the wood wall stud using the 5/32 inch drill bit.

#### Care and Cleaning

Mild soap and water or a non-abrasive cleaner is recommended for cleaning.

#### **Dimensions** Wall Mounted Slide/Grab Bar & ADA Hand Shower



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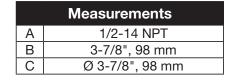


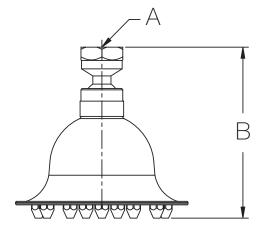
# 4-1631 Mode ShowerheadOperation & Maintenance Manual

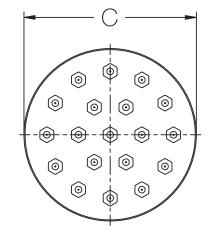


Model Number		Specification	
☐ <b>4-163</b>	1 Mode Showerhead	<ul> <li>1 mode showerhead</li> <li>2.5 gpm (9.5 L/min) standard flow restrictor</li> <li>Showerhead shall be metal construction, plated in standard polished chrome finish</li> </ul>	
Modificatio	ons	Compliance	
□ -1.5 C □ -2.0 □ -STN	6 1.5 gpm (5.7 L/min) flow restrictor 2.0 gpm (7.6 L/min) flow restrictor Satin Nickel finish	- ASME A112.18.1/CSA B125.1 - WaterSense 1.5 gpm & 2.0 gpm	
		Warranty	
Note: Append	appropriate -suffix to model number.	<ul> <li>Limited Lifetime - to the original end purchaser in consumer installations.</li> <li>5 Years - for commercial installations.</li> <li>Refer to www.symmons.com/warranty for complete warranty information.</li> </ul>	

**Dimensions** 

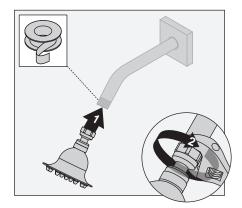






#### Installation

 Install showerhead to shower arm (not included) turning clockwise to tighten.



# Tools Required Plumber Tape

#### **Care and Cleaning**

1) Clean finished trim area with a soft cloth using mild soap and water or a non-abrasive cleaner and then quickly rinse with water.

#### **Troubleshooting Chart**

Problem	Cause	Solution
Finish is spotting.	Elements in water supply may cause water staining on finish.	Clean finished trim area with a soft cloth using mild soap and water or a non-abrasive cleaner and then quickly rinse with water.
Showerhead is leaking from shower arm when valve is in "on" position.	Coupling connecting showerhead to shower arm is cracked or washer inside coupling is worn.	Inspect coupling and washer and replace showerhead if necessary.

**WARNING:** This product can expose you to chemicals including lead, which is known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.



## Lavatory Faucet SLS-3512, SLS-3510 Series Installation Brief

#### **Model Numbers**

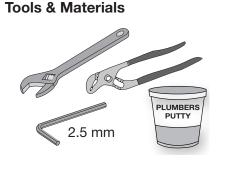
SLS-3512 Lavatory faucet with lift rod and pop-up drain

SLS-3510 Lavatory faucet only

#### **Decorative Finishes**

Append finish suffix code to replacement part numbers when applicable

- Polished chrome (standard)



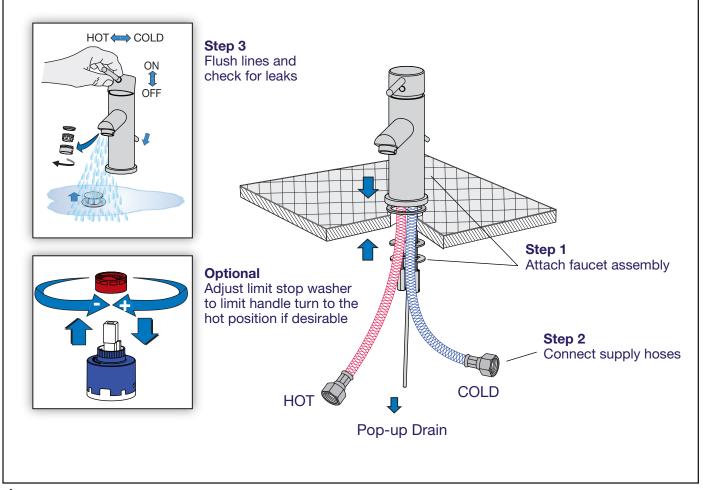
Model SLS-3512

#### Need Help?

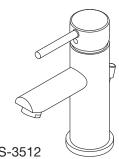
Contact Symmons customer service at P: (800) 796-6667, F: (800) 961-9621 Email: gethelp@symmons.com Monday - Friday 7:30 am - 6:00 pm EST

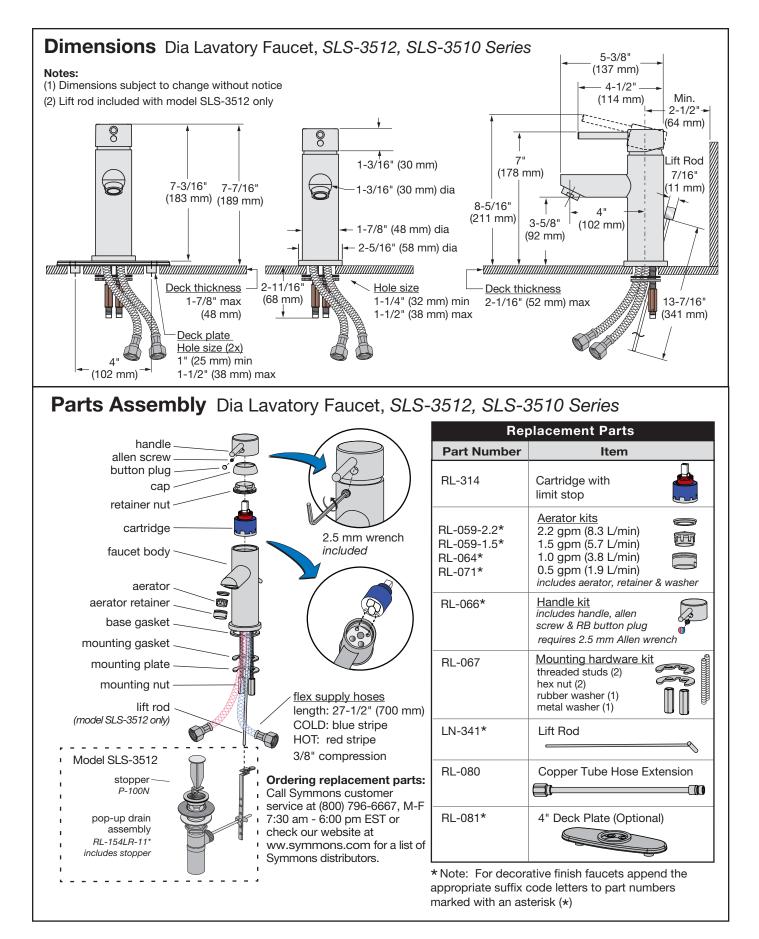
Please check Symmons website for technical help, the latest product information and warranty policy. www.symmons.com/service

## Quick Install Guide Dia Lavatory Faucet, SLS-3512, SLS-3510 Series



WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.





## SYMMONS<sup>®</sup> Symmetrix<sup>®</sup> Lavatory Faucet S-20-BC Series Installation Brief



Standard handle

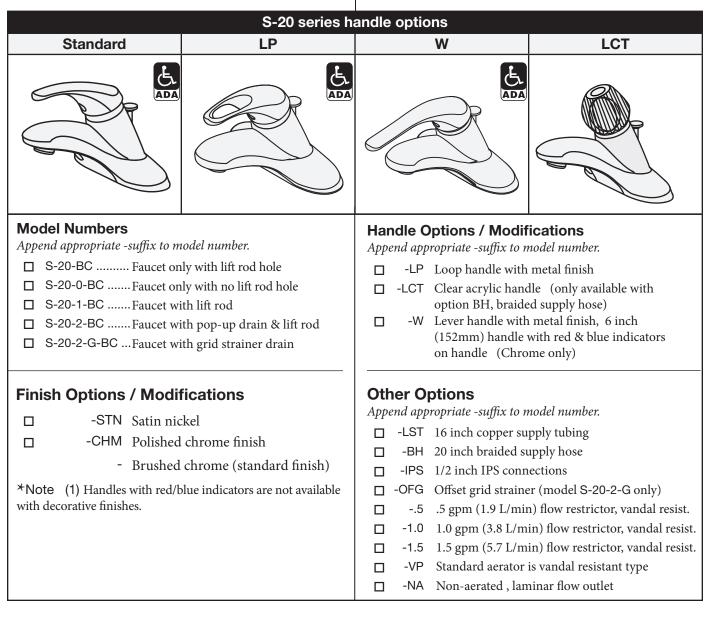
#### **Feature Highlights**

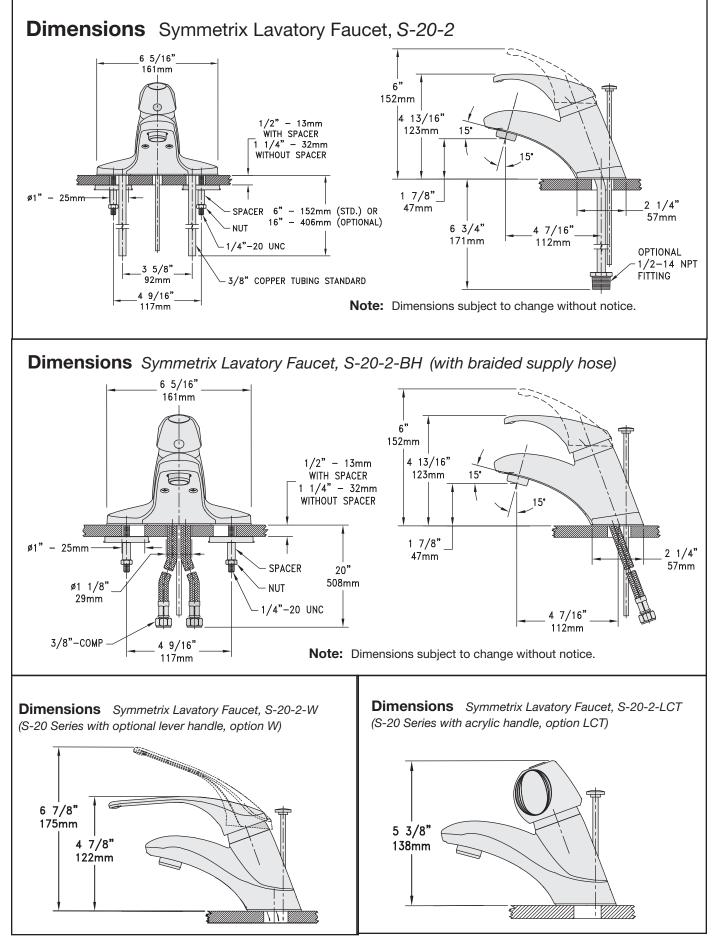
- Single lever faucet with red & blue indicators on handle
- Standard aerator, 2.2 gpm flow rate (8.3 L/min)
- Supply has 6 inch 3/8 inch copper tubing, 4 inch (102mm) centers
- Metal contruction, brushed chrome finish

#### Need Help?

Contact Symmons customer service at (800) 796-6667, (781) 848-2250 Email: customerservice@symmons.com Monday - Friday 8:00 am - 7:30 pm EST

 Please check Symmons website for technical help, the latest product information and warranty policy.
 Website: www.symmons.com/service





## Parts Assembly Symmetrix Lavatory Faucet, S-20 series

KN-2	Compression ring		
KN-3RB*	Solid handle	KN-3RB KN-	3BRB
KN-3BRB*	Loop handle		
KN-4	Cartridge	L-22	
KN-23	Anchor bar (2)	KN-157	
KN-26	Mounting spacer (2)		LN-135
KN-157	Plug button		
LN-8*	Valve cap	LN-8-	
LN-11*	Screw (2)	KN-2	<u>х</u>
LN-15*	Aerator	KN-4	ý ų
LN-34	Cartridge wrench (not shown)		Ð,
LN-100	Aerator (vandal resistant 0.5 gpm)		$\leq 1$
LN-101	Aerator (vandal resistant)		$\leq$
LN-135	6" lever handle with red/blue indicate		
LN-363*	Undercover plate	LN-371	<ul> <li>, ↓</li> <li>, ↓</li> </ul>
LN-370	Mounting gasket		Figure 1
LN-371	Cartridge housing assembly	ŕ	
L-22	Set screw	LN-363 -	optional IPS
L-36	Mounting nut (2)		optional IPS connections shown
L-42	Nut (2)	LN-11	
RL-154*	Pop-up drain assembly (complete)	LN-15 - 6	
P-26	Grid drain assembly (complete)	LN-100	€L-42
Note: For	Decorative Finish Faucets add suffix	LN-101 LN-370	
to parts ma	arked with an asterisk as follows:	V-Ly	
Suffix -ST	N: Radiance <sup>®</sup> Satin finish		
Suffix -B0			
			8 2 <b>H</b> OTTER (+)
		P-26	
			RL-154 1 3
		$\cup$	

## Parts Assembly Symmetrix Lavatory Faucet, S-20-BH Series

	KN-2 KN-3RB*	Compression ring Solid handle		
			KN-3RB	
	KN-3BRB*	Loop handle		
	KN-4	Cartridge	L-22	
	KN-23	Anchor bar (2)		
	KN-26	Mounting spacer (2)	KN-157 LN-135	
	KN-157	Plug button		
	LN-8*	Valve cap	LN-8- T-33-9	
	LN-11*	Screw (2)	KN-2 LN-171	
	LN-15*	Aerator		
	LN-34	Cartridge wrench (not shown)	KN-4	W
	LN-100	Aerator (vandal resistant 0.5 gpm)	LN-12	r 20
	LN-101	Aerator (vandal resistant)		22
	LN-122	Acrylic Handle		
	LN-135	6" lever handle with red/blue indica	ators	
	LN-171	Screw	LN-371BH	
	LN-363*	Undercover plate		
	LN-370	Mounting gasket		
	LN-371BH	Cartridge housing assembly	LN-363 -	
	L-22	Set screw		
	L-36	Mounting nut (2)	LN-11_	
	L-42	Nut (2)		2 HOTTER (+)
	RL-154*	Pop-up drain assembly (complete)	LN-15	Car Jununa
	P-26	Grid drain assembly (complete)	LN-100 _ LN-370	COLDER (-)
	T-33	Plug button	LN-101	
				1
		ve Finish Faucets add suffix to		
		d with an asterisk as follows:		
		Radiance <sup>®</sup> Satin finish		
	Suffix -BC:	Brushed chrome		
			P-26	
			U Gr	Figur e 1
			RL-154	r igai e r
			~ RL-134	

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# **SYMMONS**<sup>®</sup> Origins<sup>®</sup>

## **Kitchen Faucet** S-23 Series Installation and Service Instructions

#### Installation

**Caution:** Be sure to turn off hot and cold water supplies before installing or servicing faucet.

**Step 1** If installing model with hose and spray, install hose guide into hole in sink (normally the far right hole on four hole sink). From underneath sink place washer then nut over hose guide and secure to sink. Insert hose through hose guide and up through middle hole from left in sink. Place gasket on base of escutcheon. From above sink attach hose securely to nipple on base of faucet.

**Step 2** Align faucet to sink by matching underside arrow and letter "F" on escutcheon with front of sink. Without straightening copper supplies insert through center hole of sink. Secure faucet to sink by tightening the anchor bar (KN-23), spacer (KN-26) and nut (L-36) on the mounting bolts from underside. (If sink surface is uneven use putty or sealant to make proper seal under base.)

**Step 3** Carefully straighten copper supplies to avoid kinking tubing. Connect hot supply to left tube and cold supply to right tube using appropriate connectors.

**Step 4** It is very important to thoroughly flush the supply lines to prevent foreign matter, i.e. copper chips, sand, stones, etc. from damaging the sealing surfaces of cartridge. Remove aerator and turn valve handle on to full cold position, open cold supply. Without closing, turn handle to full hot and open hot supply. Let water run in hot only and cold only positions long enough to flush supply lines thoroughly. If equipped with a hose and spray, direct spray head into sink and activate spray. Shut off faucet and replace aerator. Check for leaks.

**Step 5** The handle limit stop can be set to limit handle turn to the hot position. The limit mechanism is factory set to allow full handle travel. To adjust the limit stop, turn handle to the full hot position and lift handle to open faucet approximately half way to obtain a smooth flow for correct initial temperature measurement.

**Step 6** If when faucet is on and in full hot position and water is too hot, shut water off, remove plug button (KN-157), loosen set screw (L-22) and remove handle (KN-3RB or KN-3BRB), lift limit stop using a small flat head screw driver and rotate clockwise to lower temperature. If water is not hot enough, rotate counter clockwise (See Figure 1 on reverse side). After correct temperature is achieved, reattach handle, reversing procedure above.

#### **Cartridge Replacement (KN-4)**

**Step 1** Remove plug button (KN-157), loosen set screw (L-22) and remove handle (KN-3RB or KN-3BRB).

**Step 2** Engage tabs in cartridge wrench (LN-34) with slots in

compression ring (KN-2) and use screwdriver in wrench holes or pliers on wrench and turn counter clockwise until compression ring engages with cap (KN-1). Continue turning counter clockwise so that cap/ring assembly is removed from the body (KN-11).

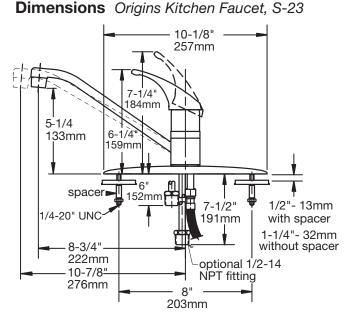
**Step 3** Remove cartridge and o-ring seal (KN-4).

**Step 4** Install new cartridge while taking care to maintain position of the o-ring seal at the base of the cartridge. Match posts in base of cartridge with alignment holes in adapter plate during assembly.

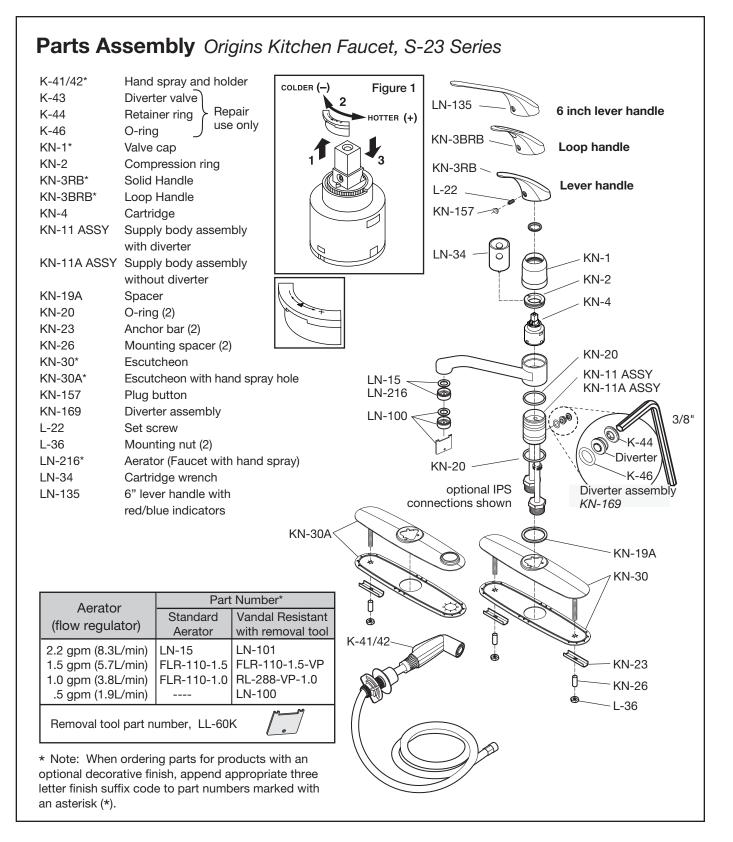
**Step 5** Reassemble faucet in reverse fashion. Thread cap onto body firmly by hand. Do not use a wrench which may damage the finish. Tighten compression ring (KN-2) finger tight using the wrench (LN-34) then 1/4 to 1/2 turn further. Set hot water limit stop in accordance with installation step 6 above.

#### **Diverter replacement (KN-169)**

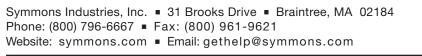
- 1. Follow cartridge replacement steps 1 through 5 above.
- 2. Remove retaining ring (K-44) with 3/8" hex key wrench.
- 3. Remove diverter and o-ring (K-46).
- 4. Grease diverter o-ring and install into body.
- 5. Press diverter into o-ring and body.
- 6. Replace retaining ring.



Note: Dimensions subject to change without notice.



**WARNING:** This product can expose you to chemicals including lead, which is known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.





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ZV-330 REV I 
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### SPB-3510-1.5 Single Handle Bar Sink Faucet **Operation & Maintenance Manual**

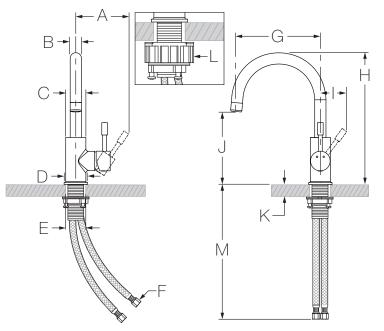


Model Numbers	Feature Highlights
SPB-3510-1.5 Single Handle Bar Sink Faucet	<ul> <li>Single hole mount configuration</li> <li>3 hole mount configuration for optional 8 inch deck plate</li> </ul>
Options/Modifications	Quarter turn ceramic cartridge
<b> -0.5 (</b> 0.5 gpm (1.9 L/min) aerator	<ul> <li>Braided hose water supply connections</li> <li>Standard swivel spout with option of rigid spout</li> </ul>
□ -1.0 CG 1.0 gpm (3.8 L/min) aerator	<ul> <li>Standard 1.5 gpm (5.7 L/min) flow rate</li> <li>Faucet shall be metal construction, plated in standard</li> </ul>
□ -1.2 CG 1.2 gpm (4.5 L/min) aerator	polished chrome finish
Delete 2.2 gpm (8.3 L/min) aerator Suffix 1.5	
<b>-DP</b> 8 inch deck plate	
□ -NA 1.5 gpm (5.7 L/min) laminar flow	
□ -STN Satin Nickel finish	
Note: Append appropriate -suffix to model number.	Warranty
Compliance	Limited Lifetime - to the original end purchaser in consumer/residential installations. 5 Years - for industrial/commercial installations. Befer to www.symmons.com/warranty for complete
-ASME A112.18.1/CSA B125.1	

(ES)

Dimensions

-NSF/ANSI 61.9; NSF/ANSI 372



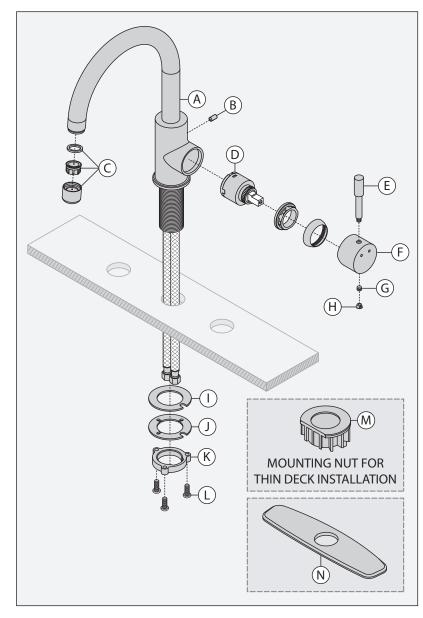
Note: Dimensions subject to change without notice.

Measurements			
Α	3-13/16", 97 mm		
В	Ø 15/16", 24 mm		
С	Ø 1-11/16", 43 mm		
D	Ø 1-15/16", 49 mm		
	Hole Size		
E	Min. Ø 1-3/8", 35 mm		
	Max. Ø 1-1/2", 38 mm		
F	3/8" compression		
G	7-1/16", 179 mm		
Н	11-1/16", 281 mm		
Distance to Backsplash Re			
Ľ '	Min. 3-7/8", 98 mm		
J	6-1/8", 156 mm		
K Deck Thickness Ref. Max. 2-3/16", 56 mm			
		Use large mounting nut fo	
	thin deck applications		
Μ	22-11/16", 576 mm		

Refer to www.symmons.com/warranty for complete

warranty information.

#### Parts Breakdown



- 1) Apply a bead of silicone around the perimeter of trim installed flush to sink.
- 2) DO NOT use plumber putty or plumber tape on fittings with face seal washers or o-ring seals.
- 3) DO NOT OVERTIGHTEN fittings with face seal washers or o-ring seals.

	Replacement Parts		
Item	Description	Part Number	
	0.5 gpm aerator	RL-092-0.5*	
	1.0 gpm aerator	RL-092-1.0*	
C	1.2 gpm aerator	RL-092-1.2*	
	1.5 gpm aerator	RL-092-1.5*	
	2.2 gpm aerator	RL-092-2.2*	
D	Cartridge	RL-093	
E	Lever Handle		
F	Handle Hub	RL-094*	
G	Set Screw	nL-094	
Н	Plug Button		
I	Rubber Washer		
J	Metal Washer		
K	Mounting Nut	RL-095	
L	Mounting Screws		
N	Optional	RL-032*	
	8" Deck Plate		

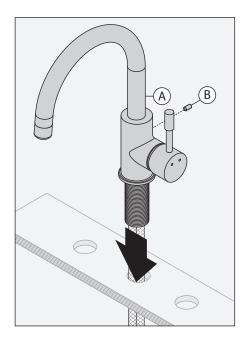
\*Note: Append appropriate -suffix to repair part number for premium finish or flow rate.

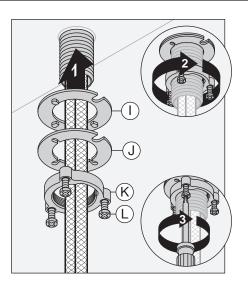
Tools Required for Installation		
Adjustable Wrench		
Allen Wrench: Handle (2.5mm) Spout (2mm)		
Phillips Head Screwdriver		
Silicone	C	

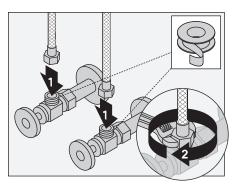
#### Installation



Water lines MUST be thoroughly flushed BEFORE and AFTER installing the faucet to prevent foreign matter i.e. copper chips, sand, stones, etc. from clogging and possibly damaging the sealing surfaces of the cartridge.





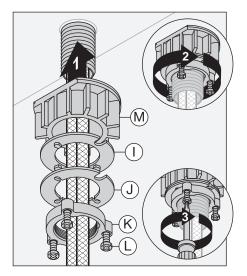


1) Insert faucet body (A) through deck surface.

**Optional:** To make swivel spout rigid, secure spout (A) with set screw (B) using a 2mm allen wrench.

- Slide rubber washer (I) and metal washer (J) on to valve body. Thread small mounting nut (K) on to valve body. Hand tighten nut (K), then tighten screws (L).
- 3) Attach supply lines to shut-off valves and hand tighten. Using a wrench, finish with one-half turn. **DO NOT** overtighten.

#### Installation (for thin deck applications)

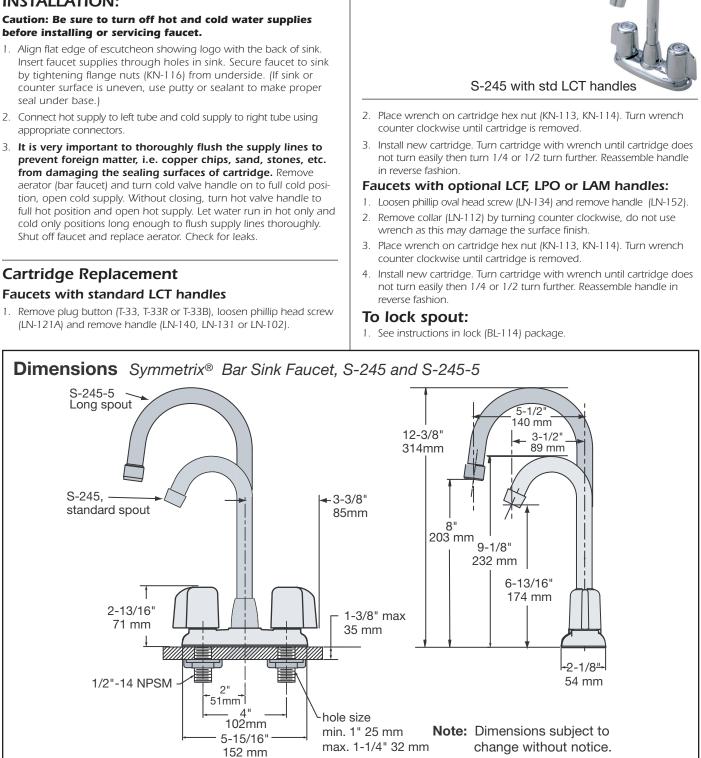


 Thread large mounting nut (M) on to valve body. Slide rubber washer (I) and metal washer (J) on to valve body. Thread small mounting nut (K) on to valve body. Hand tighten nut (K), then tighten screws (L).

#### **Troubleshooting Chart**

Problem	Cause	Solution
Finish is spotting.	Elements in water supply may cause water staining on finish.	Clean finished trim area with a soft cloth using mild soap and water or a non-abrasive cleaner and then quickly rinse with water.
Faucet is leaking from handle or faucet body.	Remove cartridge and inspect for foreign matter. Replace cartridge if necessary.	Cartridge o-rings are worn or foreign matter (dirt, chips) is lodged between cartridge and o-rings.
Faucet no longer maintains desired temperature.	Hard water deposit inside of cartridge is preventing accurate mix of hot and cold water.	Soak cartridge in white vinegar for 1 hour to breakdown hard water deposits, then rinse with water. Replace cartridge if necessary.

WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.



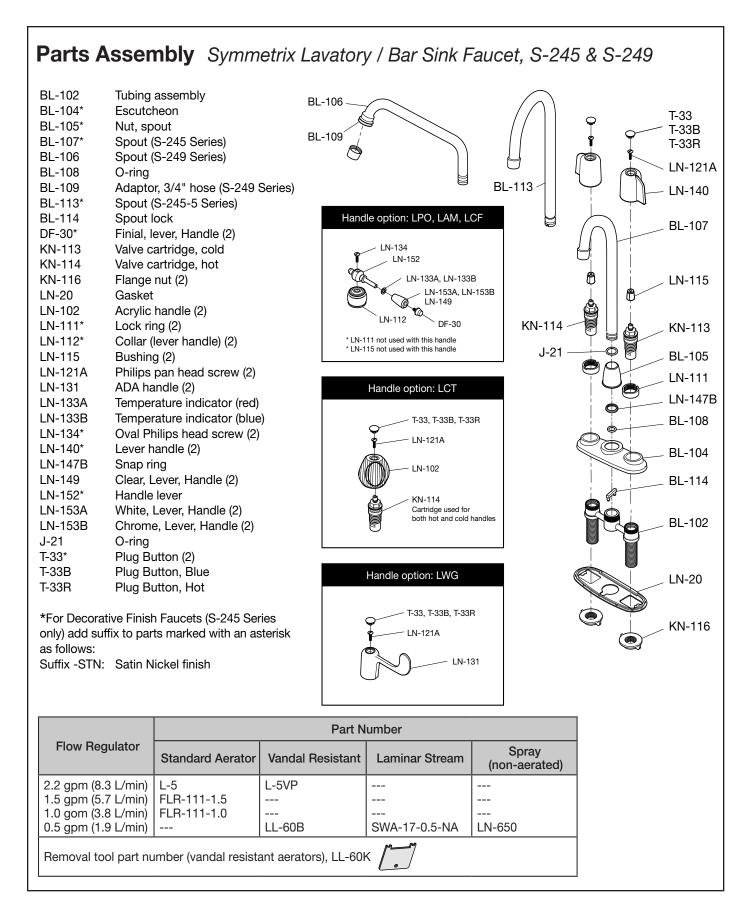
🛆 WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

**SYMMONS**<sup>®</sup> Symmetrix<sup>®</sup> Bar Sink and Lavatory Faucet, S-245 & 249 Series Installation and Service Instructions

#### INSTALLATION:



S-249 with std LCT handles



Symmons Industries, Inc. = 31 Brooks Drive = Braintree, MA 02184 Phone: (800) 796-6667 = Fax: (800) 961-9621 Website: symmons.com = Email:gethelp@symmons.com



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## SYMMONS<sup>®</sup> Symmetrix<sup>™</sup> Service Sink Faucet S-2490, S-2490-CHKS **Installation Brief**

#### **Model Numbers**

S-2490

Service sink faucet S-2490-CHKS Service sink faucet

with integral checks

#### **Tools & Materials**





**Caution - For installation** with atmospheric vacuum

Faucet should never be used in installations that are under continuous pressure when installed with spouts having atmospheric vacuum breakers (AVB'S). Therefore, never place a self closing, shut-off valve down stream of an AVB.



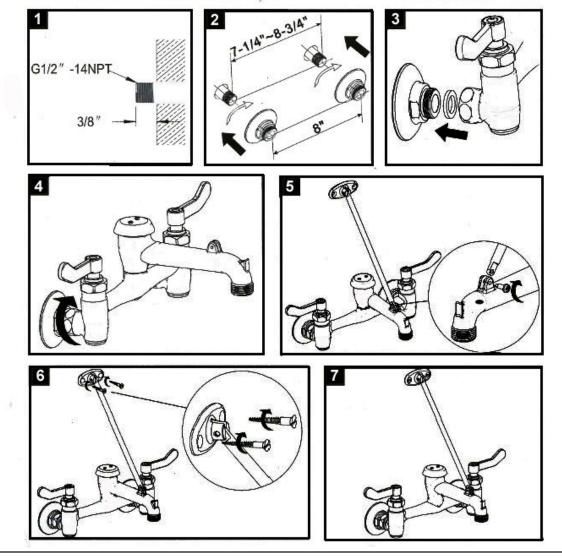
#### A Need Help?

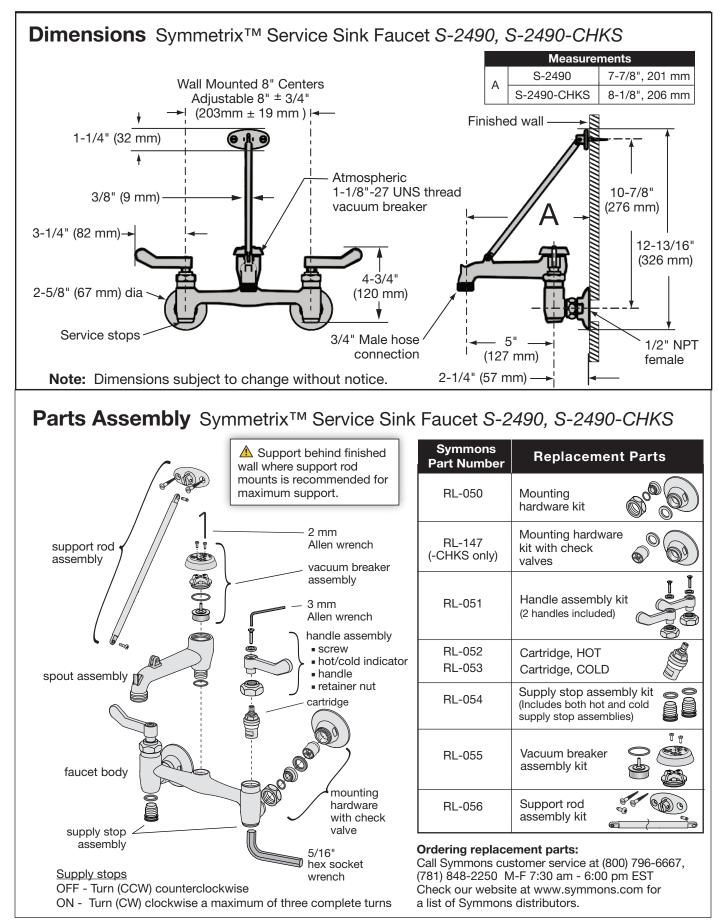
Symmons customer service: (800) 796-6667, (781) 848-2250 customerservice@symmons.com Mon - Fri 7:30 am - 6:00 pm EST

www.symmons.com/service

- Technical help •
- Product information •
- Warranty policy

## Installation Guide Symmetrix Service Sink Faucet S-2490, S-2490-CHKS





Symmons Industries, Inc. • 31 Brooks Drive Braintree, MA 02184 • Phone: (800) 796-6667 • Fax: (800) 961-9621 Copyright © 2014 Symmons Industries, Inc. • symmons.com • gethelp@symmons.com • ZV-1035 REV B • 081018



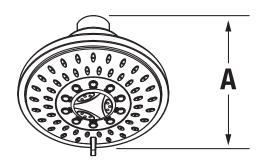
### 552SH 5 Showerhead **Operation & Maintenance Manual**

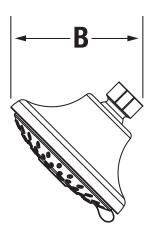


Model Number		Specification	
☐ 552SH	5 Mode Showerhead	<ul> <li>5 mode showerhead</li> <li>4" diameter</li> <li>2.5 gpm (9.5 L/min) standard flow restrictor</li> <li>Showerhead plated in standard polished chrome finish</li> </ul>	
Modifications		Compliance	
□ -1.5 C □ -2.0 □ -SBZ	1.5 gpm (5.7 L/min) flow restrictor 2.0 gpm (7.6 L/min) flow restrictor Seasoned Bronze finish	- ASME A112.18.1/CSA B125.1 - WaterSense 1.5 gpm, 2.0 gpm	
□ -STN Satin Nickel finish		Warranty	
<b>Note:</b> Append appropriate -suffix to model number.		<ul> <li>Limited Lifetime - to the original end purchaser in consumer installations.</li> <li>5 Years - for commercial installations.</li> <li>Refer to www.symmons.com/warranty for complete warranty information.</li> </ul>	

**Dimensions** 

Measurements		
А	3-7/8", 98 mm	
В	3-5/8", 92 mm	





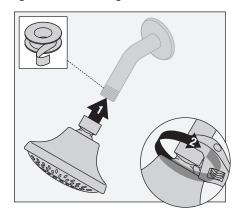
#### Installation

#### Tools Required for Installation

Plumber Tape

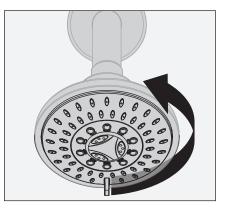


1) Install showerhead to shower arm (not included) turning clockwise to tighten.



#### Operation

1) Turn showerhead to desired mode of operation.



#### **Troubleshooting Chart**

Problem	Cause	Solution
Finish is spotting.	Elements in water supply may cause water staining on finish.	Clean finished trim area with a soft cloth using mild soap and water or a non-abrasive cleaner and then quickly rinse with water.
Showerhead is leaking from shower arm when valve is in "on" position.	Coupling connecting showerhead to shower arm is cracked.	Inspect coupling and replace showerhead if necessary.

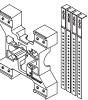


#### **Temptrol® Pressure Balancing Valve** Installation Instructions





(4 PORT, SERVICE STOPS)



261XBODY (3 PORT, SERVICE STOPS)

RTS-076 (BRACKET)



-ASME A112.18.1/CSA B125.1 -ASSE 1016 -Buy American Act Compliant

COMPLIANCE

**IMPORTANT / FOR INSTALLER** 

#### A WARNING:

As the installer of this valve, you must first carefully read and understand the material covered in this manual before installing and adjusting this valve per instructions. Failure to do so may compromise the installation, operation and/or serviceability of this valve.

Do not install positive shut-off devices on the outlet of this valve, or devices that do not allow the valve to flow at least 1.5 GPM at 45 psi inlet pressure. Exception: If a self-closing or slow-closing valve is installed on the outlet, the supplies of the valve must be equipped with checks to eliminate hot to cold bypass in the event the valve's handle is not turned off after use.

When installing this valve, failure to adjust limit stop screw properly may result in serious scalding.

#### LIFETIME LIMITED WARRANTY

All warranty claims MUST be pre-approved by Symmons.

All parts and finishes of the Symmons products are warranted to the original consumer purchaser to be free from manufacturing defects in material and workmanship for 5 years Non-Residential or Commercial Applications. Symmons warrants to the original consumer purchaser/ end-user that any Symmons product will be free of defects in material and workmanship during normal domestic use for the life of your home.

Symmons recommends using a professional plumber for all installation and repair. During the warranty period, Symmons at its sole option, will provide replacement part(s) or product (or, if no longer available, a comparable product) to replace those which have proven defective in materials or workmanship under normal installation, use and service, FREE OF CHARGE for the time period of 5 years from the date of purchase. (BATTERIES NOT INCLUDED)

This warranty is extensive in that it covers replacement of all defective parts and even finish, but these are the only two things that are covered. Damage due to installation error, product abuse, product misuse, or use of cleaners containing abrasives, alcohols, or other organic solvents, whether performed by a contractor, Service Company or vourself are excluded from this warranty. Symmons will not be responsible for labor charges and/or damage incurred in installation or repair or replacement, nor for any indirect, incidental or consequential damages, losses, injury or costs of any nature relating to the bathing products. Except provided by law, this warranty is in

lieu of and excluded all other warranties, conditions and guarantees, whether expressed or otherwise, including without restriction those of merchantability or of fitness for use

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. This warranty gives you specific legal rights, and you also may have other rights which vary from state to state. This warranty is not transferable. This warranty does not cover damage or defects relating to misuse, abuse, negligence, normal wear and tear, accident, acts of God, repairs or alterations not authorized in writing by Symmons, or improper installation, storage or handling.

The above mentioned warranty information includes each product that falls under the following: Symmons Bathing Products Warranty- Non-Residential or Commercial Applications; Symmons Non-Electronic Lifetime Faucet and Finish Limited Warranty Non-Residential or Commercial Applications; Symmons Electronic Faucet Limited Warranty - Non-Residential, Commercial and Residential Applications; Symmons Bathing Products Warranty- Residential Application Symmons Non-Electronic Lifetime Faucet and Finish Limited Warranty Residential Application

If you have any questions regarding technical support, installation or concerns regarding our warranty plan, please email us at GetHelp@symmons.com or call us at: 1-800-796-6667.



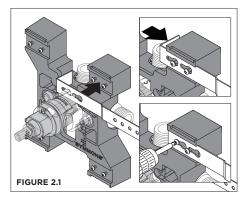
#### 1. RECOMMENDED TOOLS

#### Copper, IPS, CPVC, PEX (Crimp) & PEX (Cold Expansion)



#### 2. MOUNTING BRACKET INSTALLATION

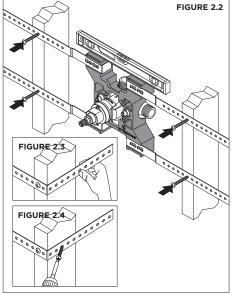
#### 2.1 Metal Straps



#### Mounting bracket is used to secure valve between wall studs up to 24 inches, center to center.

- Place metal straps (x4) over screws. Screws will come preassembled to bracket.
- Pull metal straps tight against bracket ears. Screws will protrude through small screw hole in metal straps.
- Drive screws into bracket to secure straps.
   M Use caution not to strip screws.

**NOTE:** Valve will come preassembled to mounting bracket unless specified otherwise.



2.2 Install Bracket

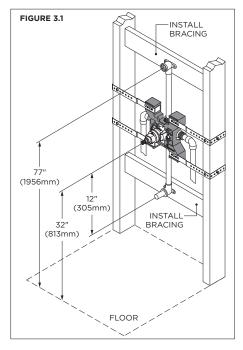
Mounting bracket will locate valve body in wall cavity at appropriate depth (valve body rough-in is not required).

- Confirm valve body and mounting bracket are level. Drive (x4) wood screws through metal straps into wood studs (see FIGURE 2.2)
- Bend excess strap around wood studs. (see FIGURE 2.3)
- Drive (4x) wood screws, at inward angle, through metal straps into sides of wood studs (see FIGURE 2.4). Installing wood screws at inward angle will pull metal straps tight against wood studs.

**NOTE:** If not using mounting bracket, see STEP 5.1 for stringer mounts installation.

#### 3. DIMENSIONS AND MEASUREMENTS

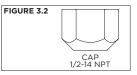
#### 3.1 Tub/Shower Systems



Valve should be positioned 32 inches above the tub basin floor. Shower arm should be 77 inches above the tub basin floor. Tub spout should be positioned approximately 12 inches below the valve.

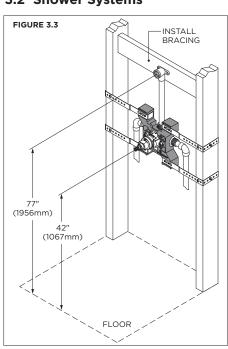
**IMPORTANT:** The design of this valve requires a rigid copper tubing connection between the tub port and the tub spout with no more than one (1) 90 degree bend allowed. Failure to do so, or to substitute PEX, CPVC, or any other connection type or outlet accessory such as a hand or body-spray, other than the Symmons tub spout provided, may result in excessive backpressure through the system, and compromise operation.

When valve is used in shower only or tub spout only installation, apply plumber tape to outlet that will not be used and install the enclosed cap to that outlet (see FIGURE 3.2).



Valve should be positioned 42 inches above the tub basin floor. Shower arm should be 77 inches above the tub basin floor.

**NOTE:** For ADA compliance (Americans with Disabilities Act) consult your local municipality for proper product choice and mounting locations.



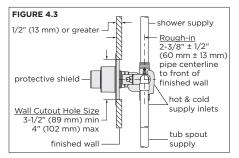
#### 3.2 Shower Systems

#### 4. DETERMINE WALL TYPE

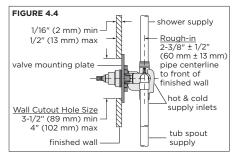
#### 4.1 Protective Shield



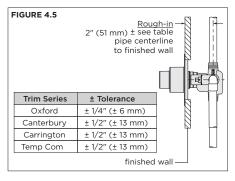
#### 4.3 Drywall or Other Type Wall



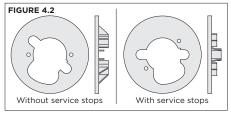
#### 4.4 Thin Wall Installation



#### 4.5 Alternative Rough-ins



#### 4.2 Valve Mounting Plate



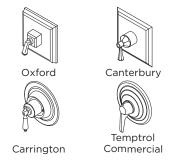
Protective shield is **required** for drywall, plaster or other type walls with:

- 1/2 inch (13 mm) or greater wall thickness
- Attach protective shield by snap fitting over end of valve spindle to protect valve during wall construction.
- 2. Finished wall must be flush with back side of protective shield surface.

Valve mounting plate is **required** for fiberglass or acrylic walls, and **optional** for plaster or other type walls with:

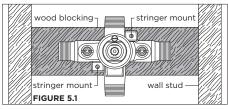
- Minimum 1/16 inch (2 mm) wall thickness
- Maximum 1/2 inch (13 mm) wall thickness
- 1. Seat mounting plate against valve (see FIGURE 4.2 for orientation).
- 2. Valve mounting plate must be flush with inner wall.

When installing valve used with any of the shower or tub/shower trims shown below, reference rough-in dimensions as shown in FIGURE 4.5 instead of standard valve rough-in:



#### 5. VALVE BODY INSTALLATION

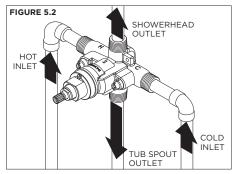
#### 5.1 Stringer Mounts



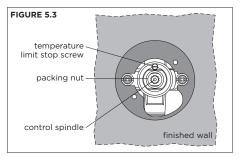
Stringer mounts are used to secure valve body to wood blocking for valve bodies without mounting bracket. (see FIGURE 5.1).

For valve body installation with mounting bracket see STEPS 2.1 & 2.2.

#### 5.2 Install Piping/Fittings (Bracket Removed for Clarity)



#### 5.3 Adjust Valve Packing Nut



#### 5.4 Flush System

- 1. Turn valve to the warm position and run for a few minutes.
- If system is dirty, remove TA-10 flow control spindle in center of valve to ensure proper flushing (see STEP 8.1).
- 3. Check for leaks around valve assembly and all pipe fittings.

#### 5.5 Set Temperature Limit Stop Screw

The temperature limit stop screw limits valve handle from being turned to maximum position resulting in excessive hot water discharge temperatures.

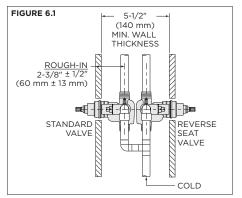
A WARNING: Failure to adjust temperature limit stop screw properly may result in serious scalding.

- 1. Place handle on flow control spindle and open valve to maximum desired temperature.
- 2. Turn limit stop screw clockwise until it seats (see FIGURE 5.3).

- Removed for Clarity)
  1. Install valve as specified in
- FIGURES 4.3 4.5, per application.
   Pipe from outlet port on the valve marked S to showerhead mounting arm location.
- Connect hot water supply to valve inlet marked H and cold water supply to valve inlet marked C.
- Pipe from outlet port on valve marked T to tub spout (262BODY & 262XBODY only).
- Remove protective shield snap fitted over the end of valve flow control spindle once valve is securely installed and wall finish work has been completed.
- Turn hot and cold supplies on. Valve will not operate unless both hot and cold water supply pressures are on.
- 2. Place handle over flow control spindle.
- Tighten packing nut for positive frictional resistance as handle is rotated from shut-off position across adjustment range.

#### 6. BACK TO BACK INSTALLATION

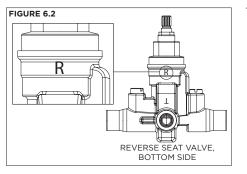
#### 6.1 Back to Back Wall Type



 To simplify piping on back to back installations use one standard valve (hot on left, cold on right) and one reverse seat valve (hot on right, cold on left) as shown in FIGURE 6.1.

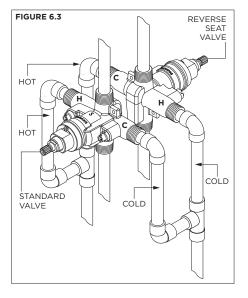
**NOTE:** Back to back installations require 5-1/2" (140 mm) minimum wall thickness for proper installation, with or without bracket.

#### 6.2 Identify Reverse Seat Valve



 Locate the "R" stamp on bottom side of the valve casting to identify reverse seat valve as shown in FIGURE 6.2.

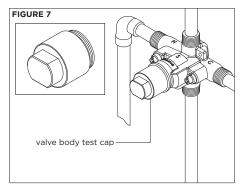
#### 6.3 Install Piping/Fittings (Bracket Removed for Clarity)



- Inlet marked H on standard valve should be plumbed to inlet marked C on reverse seat valve. Inlet marked C on standard valve should be plumbed to inlet marked H on reverse seat valve (see FIGURE 6.3).
- 2. Follow STEPS 5.3 5.5 to complete installation of valve bodies.

#### 7. VALVE BODY TEST CAP (162BODY, 162XBODY, 161XBODY)

#### 7.1 Install Valve Body with Test Cap



Test cap will come installed to valve to allow pressurization of system. **Do not** remove test cap from valve during wall construction, installation of valve or pressurization of system.

#### MWARNINGS:

- Do not expose valve with test cap to heat for longer than 2 minutes when soldering copper tubing. Doing so may damage the internal components of the valve and will void the product warranty.
- 2. Ensure test cap is **tightened securely** after soldering valve body.

To install valve body with test cap, follow instructions outlined in STEP 5.2.

#### 7.2 Preparing Valve Body with Test Cap for Trim

TA-10 flow control spindle will be included with shower and tub/shower trim. When ready to install trim to valve:

- 3. Check for leaks around the valve assembly and all pipe fittings.
- 4. Remove test cap from valve.
- 5. If system is dirty, flush valve.
- 6. Install flow control spindle and cap assembly to valve (see STEP 8.5).
- 7. Adjust packing nut and set temperature limit stop screw (see STEPS 5.3 & 5.5).

#### 8. SERVICE INSTRUCTIONS

#### 8.1 Removing Flow Control Spindle

Reference parts breakdown (see FIGURE 9.1). See trim manual for trim removal instructions.

- Shut off water supply to valve. Turn valve's TA-10 flow control spindle to open position using trim handle.
- 2. Remove trim handle and dome cover.
- 3. Remove escutcheon plate by first removing escutcheon screws.
- 4. Unscrew both T-12A cap assembly and flow control spindle together.

#### 8.2 Hot/Cold Seat Repair Kit

Service requires TA-4 hot and cold seats and T-35C removal tools.

- 1. Remove flow control spindle (see STEP 8.1).
- 2. Remove both seats with removal tools, turning counterclockwise.
- 3. Replace both seats even if only one appears worn.
- 4. Install and tighten both seats to 15 foot pounds of torque, turning clockwise.

#### 8.3 Flow Control Spindle Washer Repair Kit

Service requires TA-9 washer repair kit.

- 1. Remove flow control spindle (see STEP 8.1).
- Remove cold washer by holding flow control spindle using trim handle and unscrew cold washer retainer using channel lock pliers, turning counterclockwise.
- 3. Remove hot washer by removing hot washer screw.

#### 8.4 Checking Water Pressure Balancing Piston

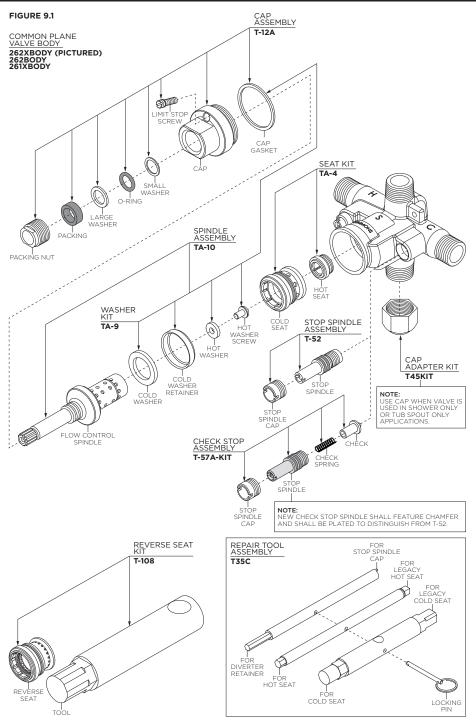
The perforated end of the flow control spindle houses the water pressure-balancing piston.

- 1. Remove flow control spindle (see STEP 8.1).
- 2. Shake flow control spindle and listen for clicking noise. Piston should be free to slide back and forth the full length of its travel.
- 3. If piston appears restricted then do the following: a) tap the handle, or the stem end of flow control spindle, against a solid object to free the piston, or b) try soaking in household vinegar and repeat tapping handle or stem of flow control spindle.
- 4. If unable to free piston, replace flow control spindle.

#### 8.5 Valve Reassembly

Reassemble valve, reversing the procedure in STEP 8.1. Be sure flow control spindle is drawn close to the cap before screwing cap assembly back into valve.

#### 9. PARTS BREAKDOWN



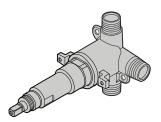
### FIGURE 9.2

VALVE BODY FITTING MODIFICATIONS (2x) PEX COL<u>D EXPANSION</u> (2x) PEX CRIMP (2X) CPVC RTSCPVC RTSPEXCR RTSPEXCE TEST CAP (2X) PROPRESS RTSPFIT RTSTC1 MOUNTING BRACKET COMPONENTS (4X) BRACKET STRAPS RTS-077 00 00 0000000000000000000 00 000000000000000000 00 (2X) VALVE TO BRACKET SCREWS RTS-078 BRACKET STRAPS & BRACKET 3 Januar Mark RTS-076 3 TADADADA (8X) STRAP TO BRACKET SCREWS RTS-079 AM ann ami NMMONS ODD M ONNO ONNO

	10. TROU	BLESHOOTING CHART
PROBLEM	CAUSE	SOLUTION
Valve will not pass water.	Both hot and cold water supplies are not turned on.	Turn on both supplies. Valve will not operate unless both hot and cold water pressure is on.
Valve leaks when shut off.	Hot and cold washers are worn or foreign matter (dirt, chips) is lodged between washers and seat surfaces.	Replace washers using TA-9 washer repair kit. Replace hot & cold seats using TA-4 hot/cold seat repair kit.
Temperature control handle is turned from cold to hot (or hot back to cold) and volume from spout or head is not constant.	Pressure-balancing piston housed in spindle assembly is restricted from free movement by foreign matter.	Open valve halfway, remove handle and tap spindle with plastic hammer. Check water pressure balancing piston in control spindle. See service instructions. Replace TA-10 flow control spindle.
Valve delivers sufficient quantity of cold, but little hot, or the reverse.	Same as above.	Same as above.
Temperature varies without moving handle.	Same as above.	Same as above.
Valve delivery temperature reduces gradually during use; handle must be turned to hotter positions to maintain constant temperature.	Overdraw on hot water supply (i.e. running out of hot water).	Reduce maximum flow by using volume control adjustment on valve or showerhead. This will allow longer period of use before overdrawing hot water supply.
Valve delivers hot water when initially opened. Water turns colder as handle is rotated in a counterclockwise direction toward the hot position.	Valve is piped incorrectly (i.e. the hot supply is piped to the valve's cold inlet and the cold supply is piped to the hot inlet.)	If piping is accessible, correct connections to the valve. If piping is not accessible, order T-108 reverse seat and tool kit. Older installations may also require replacing the TA-4 hot/cold seat repair kit.

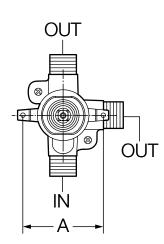


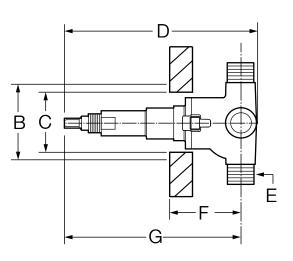
## 2DIVBODYNSSRT Dual Outlet Diverter, Non-Sharing **Operation & Maintenance Manual**



Model Numbers	Specification	
Dual Outlet Diverter, Non-Sharing	Dual outlet diverter valve with no shared functionality. Features male 1/2" IPS and 1/2" sweat inlet/outlet connections (in common plane), defined detents, 2 discreet positions and stringer mounts. Components made from lead free metal construction.	
Warranty	Compliance	
<ul> <li>Limited Lifetime - to the original end purchaser in consumer/residential installations.</li> <li>5 Years - for industrial/commercial installations.</li> <li>Refer to www.symmons.com/warranty for complete warranty information.</li> </ul>	-ASME A112.18.1/CSA B125.1	

## **Dimensions**



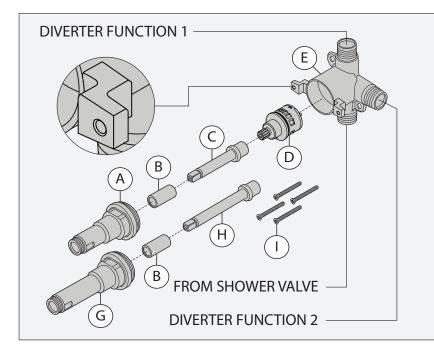


	Measurements
Α	2-5/8", 67 mm
	Screwless Escutcheons
в	Hole Size
D	Min. Ø 3", 76 mm
	Max. Ø 3-1/4", 83 mm
	Screw Escutcheons
С	Hole Size
C	Min. Ø 1-3/4", 44 mm
	Max. Ø 2", 51 mm
D	5-1/4", 133 mm
Е	(3x) 1/2" male IPS &
	(3x) 1/2" sweat
F	See note 1
G	4-7/8", 124 mm

## Notes:

- 1) Figure is determined by style of trim attached to shower valve. See rough-in
- dimension drawing for shower valve application with diverter valve.
- 2) Dimensions subject to change without notice.

## Parts Breakdown



	Replac	cement P	Parts
Item	Descri	ption	Part Number
A B	Cap Ass Spac		RTS-DIVCAP- NS-SRT
С	Cartridge	Extender	RTS-DIVEXT- NS-SRT
D	Cartri	dge	RTS-2DIV-NS
B G H I	Spac 1" Cap E 1" Cartridge 4" Mountin	xtender Extender	RTS-DIV-1EXT- NS
	Tool	s Require	ed
	Adjustable Wrench		
Drill	Drill (optional)		
Plumber Tape			Q
Safety Glasses		Ŗ	$\mathcal{P}$
Solder			
Torch			



## Installation



**Important:** Do not plug outlet ports. Do not use diverter as shut-off valve.

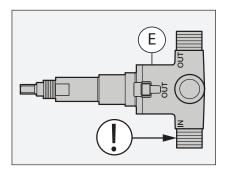


**Important:** Do not expose diverter valve to heat for longer than 2 minutes when sweating in copper tubing. Doing so may damage the internal components of the valve and will void the product warranty.

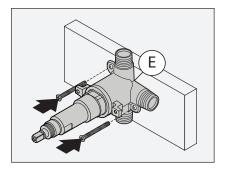
**Note:** Diverter valve can be installed in wall with shower valve or in an adjoining wall to shower valve.

- Reference rough-in dimension for shower application with diverter for proper installation of diverter valve.
- 2) Shut-off water supplies.

3) Position diverter valve (E) so port marked **IN** is facing down.

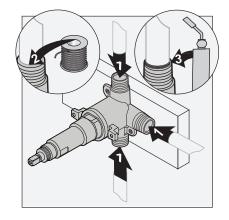


 Secure stringer mounts on diverter valve (E) to wood blocking for support.



**Note:** Securing stringer mounts is necessary for applications where PEX, or other non rigid tubing, is used to install diverter valve.

5) Sweat 1/2" copper tubing from inlet port on diverter valve to water source. Sweat 1/2" copper tubing from outlet ports to desired accessories.

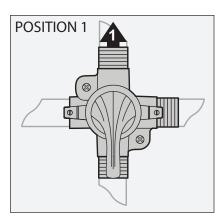


**Optional:** Apply plumber tape to male IPS threads on the inlet and outlet ports of diverter valve. Install 1/2"-14 NPT copper fittings to the inlet and outlet ports. Connect outlets to desired accessories.

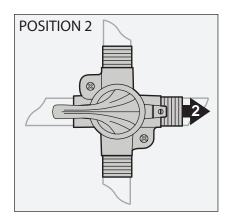
 Turn on water supplies to flush plumbing lines free of debris. Check for leaks.

## Operation

1) Cartridge is factory set to divert to function 1.

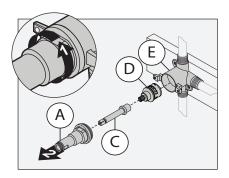


2) Turn handle to position 2 to divert to function 2.



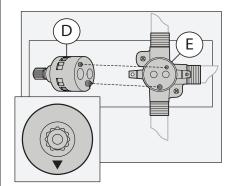
## **Maintenance (Cartridge Replacement)**

 Remove cap assembly (A) from diverter valve by turning counterclockwise. Remove cartridge extender (C) and cartridge (D).

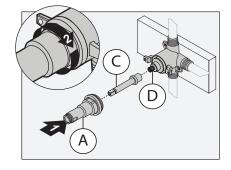


Note: Spacer (B) will be seated inside cap assembly (A).

- 2) Inspect cartridge for debris. Replace cartridge if necessary.
- Orient new cartridge (D) with arrow facing down. Align pegs on cartridge (D) with indents inside diverter valve (E).



 Align spindle extender (C) with broach on cartridge (D). Install spindle extender (C) and cap assembly (A) to cartridge (D). Secure cap assembly (A) by turning clockwise.



## Notes:

- Use caution not to dislodge cartridge from valve body when installing cap assembly (A).
- 2) Tighten cap assembly (A) to  $75 \pm 5$  lbf-in of torque.

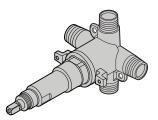
## **Troubleshooting Chart**

Problem	Cause	Solution
Diverter valve will not divert water.	Foreign matter in water supply may cause blockages in plumbing lines and the diverter valve cartridge.	Remove cartridge from diverter valve. Flush lines free of foreign matter. Inspect cartridge for debris. Replace cartridge if necessary.
Water is leaking from the face of the diverter valve.	Cap assembly is not fully sealed to diverter valve.	Remove cap assembly. Inspect threads for debris. Reinstall cap assembly to diverter valve at 75 ± 5 lbf-in of torque.
Diverter trim will not install to diverter valve.	Diverter valve body rough-in is too deep.	Use RTS-DIV-1EXT-NS to extend diverter stem 1 inch.

WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

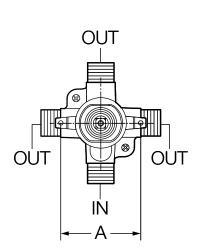


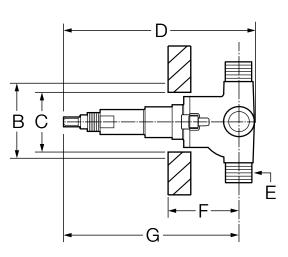
## 3DIVBODYNSSRT Triple Outlet Diverter, Non-Sharing **Operation & Maintenance Manual**



Model Numbers	Specification	
<b>3DIVBODYNSSRT</b> Triple Outlet Diverter, Non-Sharing	Triple outlet diverter valve with no shared functionality. Features male 1/2" IPS and 1/2" sweat inlet/outlet connections (in common plane), defined detents, 3 discreet positions and stringer mounts. Components made from lead free metal construction.	
Warranty	Compliance	
<ul> <li>Limited Lifetime - to the original end purchaser in consumer/residential installations.</li> <li>5 Years - for industrial/commercial installations.</li> <li>Refer to www.symmons.com/warranty for complete warranty information.</li> </ul>	-ASME A112.18.1/CSA B125.1	

## **Dimensions**

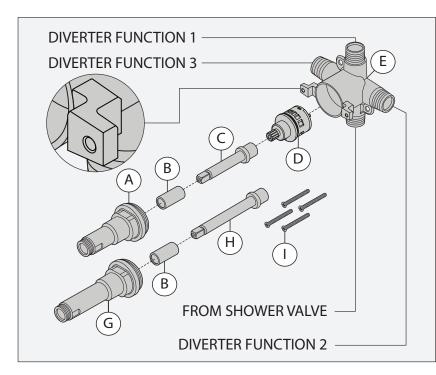




	Measurements
А	2-5/8", 67 mm
	Screwless Escutcheons
в	Hole Size
D	Min. Ø 3", 76 mm
	Max. Ø 3-1/4", 83 mm
	Screw Escutcheons
С	Hole Size
C	Min. Ø 1-3/4", 44 mm
	Max. Ø 2", 51 mm
D	5-1/4", 133 mm
Е	(4x) 1/2" male IPS &
	(4x) 1/2" sweat
F	See note 1
G	4-7/8", 124 mm

## Notes:

- 1) Figure is determined by style of trim attached to shower valve. See rough-in
- dimension drawing for shower valve application with diverter valve.
- 2) Dimensions subject to change without notice.



	Replac	cement P	Parts
Item	Description		Part Number
A B	Cap Ass Space		RTS-DIVCAP- NS-SRT
С	Cartridge	Extender	RTS-DIVEXT- NS-SRT
D	Cartri	dge	RTS-3DIV-NS
B G H I	Spac 1" Cap E 1" Cartridge 4" Mountin	xtender e Extender	RTS-DIV-1EXT- NS
	Tool	s Requir	
-	Adjustable Wrench		
Drill (optional)			
Plumber Tape			<b>O</b>
Safety Glasses		Ŗ	$\mathcal{P}$
Solder			
Torch			



## Installation



**Important:** Do not plug outlet ports. Do not use diverter as shut-off valve.

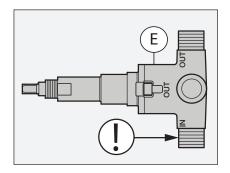


**Important:** Do not expose diverter valve to heat for longer than 2 minutes when sweating in copper tubing. Doing so may damage the internal components of the valve and will void the product warranty.

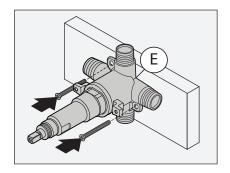
**Note:** Diverter valve can be installed in wall with shower valve or in an adjoining wall to shower valve.

- 1) Reference rough-in dimension for shower application with diverter for proper installation of diverter valve.
- 2) Shut-off water supplies.

3) Position diverter valve (E) so port marked **IN** is facing down.

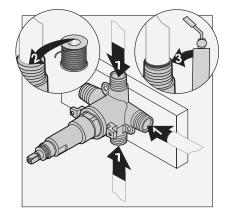


 Secure stringer mounts on diverter valve (E) to wood blocking for support.



**Note:** Securing stringer mounts is necessary for applications where PEX, or other non rigid tubing, is used to install diverter valve.

5) Sweat 1/2" copper tubing from inlet port on diverter valve to water source. Sweat 1/2" copper tubing from outlet ports to desired accessories.

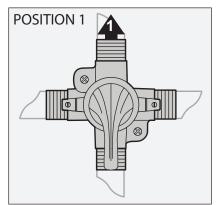


**Optional:** Apply plumber tape to male IPS threads on the inlet and outlet ports of diverter valve. Install 1/2"-14 NPT copper fittings to the inlet and outlet ports. Connect outlets to desired accessories.

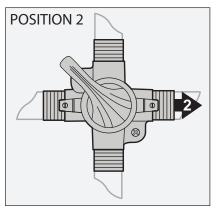
 Turn on water supplies to flush plumbing lines free of debris. Check for leaks.

## Operation

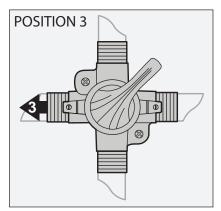
1) Cartridge is factory set to divert to function 1.



2) Turn handle to position 2 to divert to function 2.

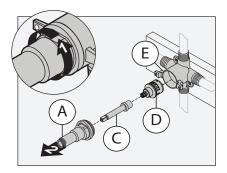


3) Turn handle to position 3 to divert to function 3.



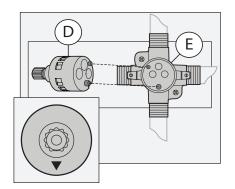
## Maintenance (Cartridge Replacement)

 Remove cap assembly (A) from diverter valve by turning counterclockwise. Remove cartridge extender (C) and cartridge (D).

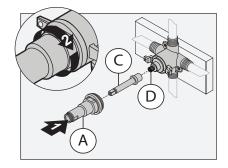


Note: Spacer (B) will be seated inside cap assembly (A).

- 2) Inspect cartridge for debris. Replace cartridge if necessary.
- Orient new cartridge (D) with arrow facing down. Align pegs on cartridge (D) with indents inside diverter valve (E).



 Align spindle extender (C) with broach on cartridge (D). Install spindle extender (C) and cap assembly (A) to cartridge (D). Secure cap assembly (A) by turning clockwise.



## Notes:

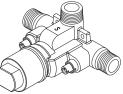
- 1) Use caution not to dislodge cartridge from valve body when installing cap assembly (A).
- 2) Tighten cap assembly (A) to  $75 \pm 5$  lbf-in of torque.

## **Troubleshooting Chart**

Problem	Cause	Solution
Diverter valve will not divert water.	Foreign matter in water supply may cause blockages in plumbing lines and the diverter valve cartridge.	Remove cartridge from diverter valve. Flush lines free of foreign matter. Inspect cartridge for debris. Replace cartridge if necessary.
Water is leaking from the face of the diverter valve.	Cap assembly is not fully sealed to diverter valve.	Remove cap assembly. Inspect threads for debris. Reinstall cap assembly to diverter valve at $75 \pm 5$ lbf-in of torque.
Diverter trim will not install to diverter valve.	Diverter valve body rough-in is too deep.	Use RTS-DIV-1EXT-NS to extend diverter stem 1 inch.

WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

# SYMMONS<sup>®</sup> Temptrol<sup>®</sup> the smart choice™



## PRESSURE BALANCING TUB/SHOWER VALVE BODY SPECIFICATION SUBMITTAL

**MODEL NUMBERS** 

261XBODY  $\square$ Pressure Balancing shower valve body with service stops

161XBODY Pressure Balancing shower valve body with pressure testing cap and service stops

## **FEATURE HIGHLIGHTS**

- Brass, bronze and stainless steel construction
- Pressure balancing mixing valve to maintain safe shower temperature
- Adjustable stop screw to control maximum hot water temperature to valve
- Integral service stops allow water shut-off for . valve servicing
- 3 port valve body in common plane
- Inlets: 1/2" IPS and 1/2" sweat
- Outlet: 1/2" IPS and 1/2" sweat
- Accommodates back to back installations •
- Accommodates thin wall installations .
- Stringer mounts included

## **OPTIONS/MODIFICATIONS**

-BR	Temptrol Rapid Install™ Bracket
-CHKS	Integral check stops for use in
	installations where a positive

shut-off device is used downstream of valve Reverse seat for back to back -RV

installations

## **INLET ADAPTERS**

-CP	CPVC fittings
-P1	PEX crimp fittings
-P2	PEX expansion fittings
-P3	ProPress fittings

## COMPLIANCE

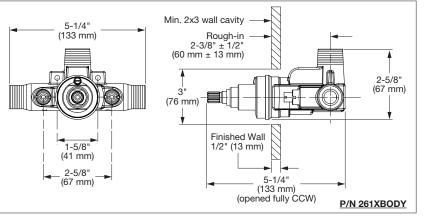
- ASME A112.18.1/CSA B125.1
- ASSE 1016
- Buy American Act Compliant

## WARRANTY

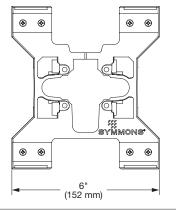
Limited Lifetime - to the original end purchaser in consumer installations.

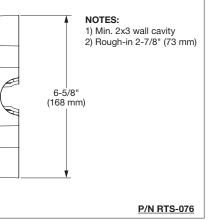
G₽°

5 Years - for commercial installations. Refer to www.symmons.com/warranty for complete warranty information.

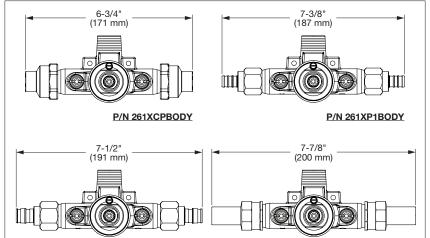


## TEMPTROL RAPID INSTALL™ BRACKET





P/N 261XP3BODY



P/N 261XP2BODY

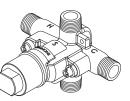
261XBODY

161XBODY

# SYMMONS<sup>®</sup> Temptrol<sup>®</sup>

## PRESSURE BALANCING TUB/SHOWER VALVE BODY SPECIFICATION SUBMITTAL

262XBODY



162XBODY

## MODEL NUMBERS

262XBODY

Pressure Balancing tub/shower valve body with service stops

162XBODY Pressure Balancing tub/shower valve body with pressure testing cap and service stops

## FEATURE HIGHLIGHTS

- Brass, bronze and stainless steel construction
- Pressure balancing mixing valve to maintain safe shower temperature
- Adjustable stop screw to control maximum hot water temperature to valve
- Integral service stops allow water shut-off for valve servicing
- 4 port valve body in common plane
- Inlets: 1/2" IPS and 1/2" sweat
- Outlets: 1/2" IPS and 1/2" sweat
- Accommodates back to back installations
- Accommodates thin wall installations
- Stringer mounts included

## **OPTIONS/MODIFICATIONS**

- -BR Temptrol Rapid Install<sup>™</sup> Bracket
   -CHKS Integral check stops for use in installations where a positive shut-off device is used downstream of valve
- **-RV** Reverse seat for back to back installations

## **INLET ADAPTERS**

- □ -CP CPVC fittings
- **-P1** PEX crimp fittings
- □ -P2 PEX expansion fittings
- □ -P3 ProPress fittings

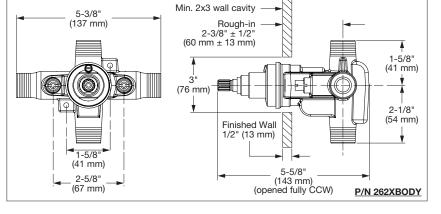
## COMPLIANCE

- ASME A112.18.1/CSA B125.1
- ASSE 1016Buy American Act Compliant

## WARRANTY

**Limited Lifetime** - to the original end purchaser in consumer installations.

**5 Years** - for commercial installations. Refer to www.symmons.com/warranty for complete warranty information.



## TEMPTROL RAPID INSTALL™ BRACKET

