



California Faucets®

2-VR

2 Handle Tub or Shower Valve Installation Instructions

CALIFORNIA FAUCETS RECOMMENDS THAT ALL PLUMBING PRODUCTS BE INSTALLED BY A LICENSED PROFESSIONAL

IMPORTANT: Read all instructions prior to installation and provide copy of instructions to consumer. **DISCLAIMER:** To conform to many local codes and/or ordinances, it may be required that this product be installed in conjunction with an approved tempering valve.

Operating Specifications:

Recommended Supply Pressure: 20 to 70 psi [1.4 to 4.8 bar] **

* Operating pressures between hot and cold supplies should vary no more than 30 psi [2.1 bar].

† If water pressure exceeds 70 psi [4.8 bar], install a Pressure-Reducing Valve (RPV).

I DETERMINE INSTALL CONFIGURATION

Important: It is the responsibility of the INSTALLER to refer to the various installation various installation configurations shown in STEP I to determine necessary fittings and supply line lengths.

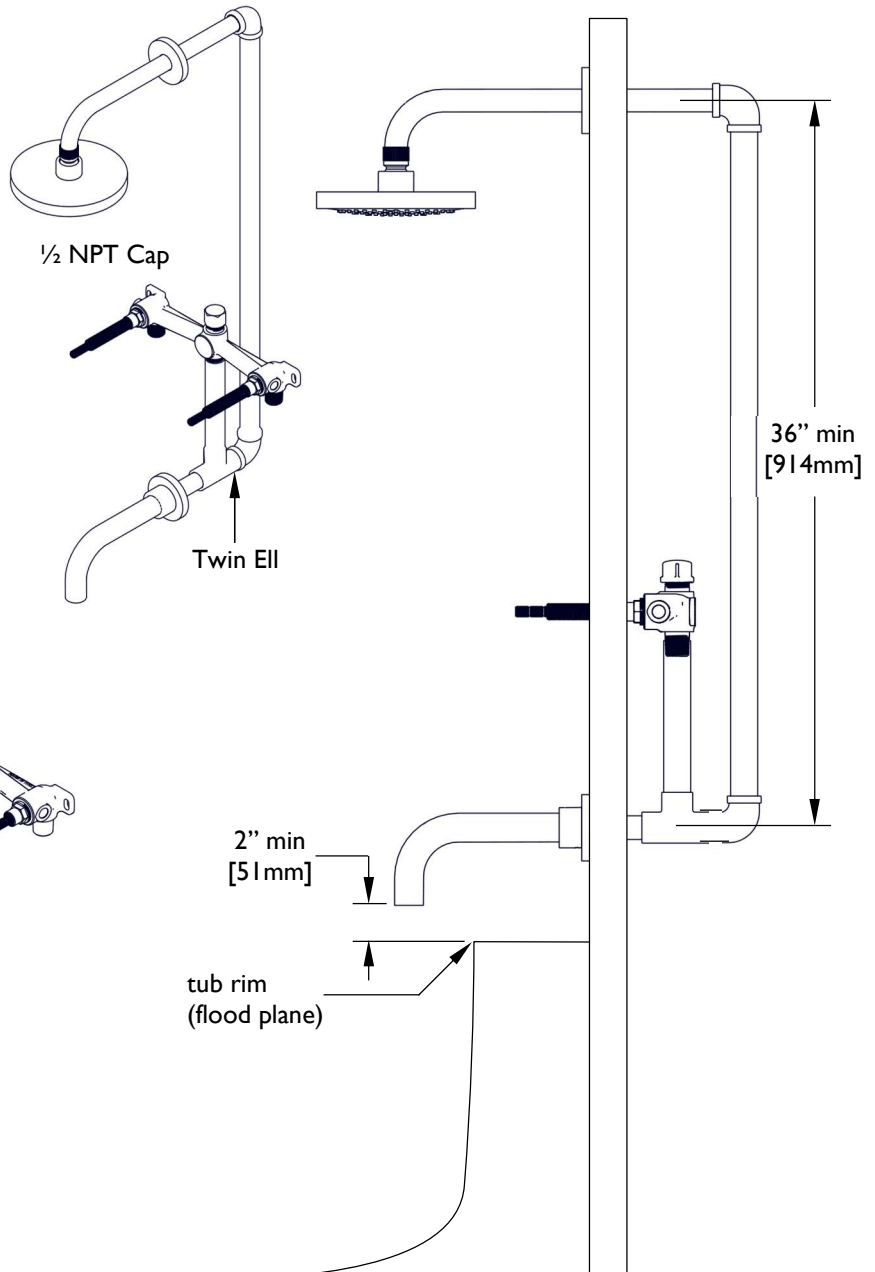
- This valve may be installed in one of the following configurations:

- Tub Only
- Shower Only
- Tub & Shower (Requires "Twin Ell")

Important: Shower Only installation **requires** a remote pressure balance valve for anti-scald protection.

- When installing Tub Spout, bottom of spout must be at least 2" [51mm] above tub rim (flood plane)

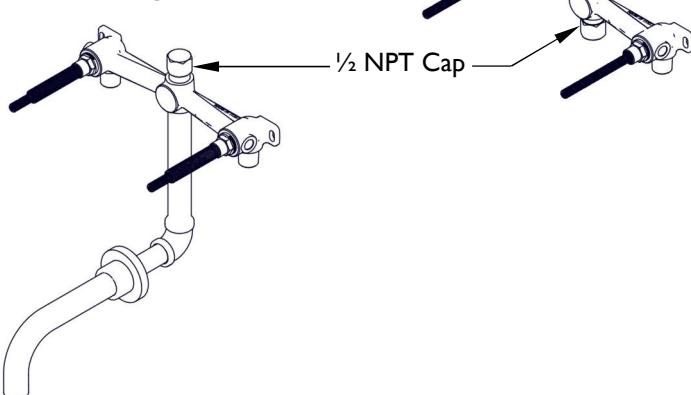
Tub & Shower



Shower Only



Tub Only

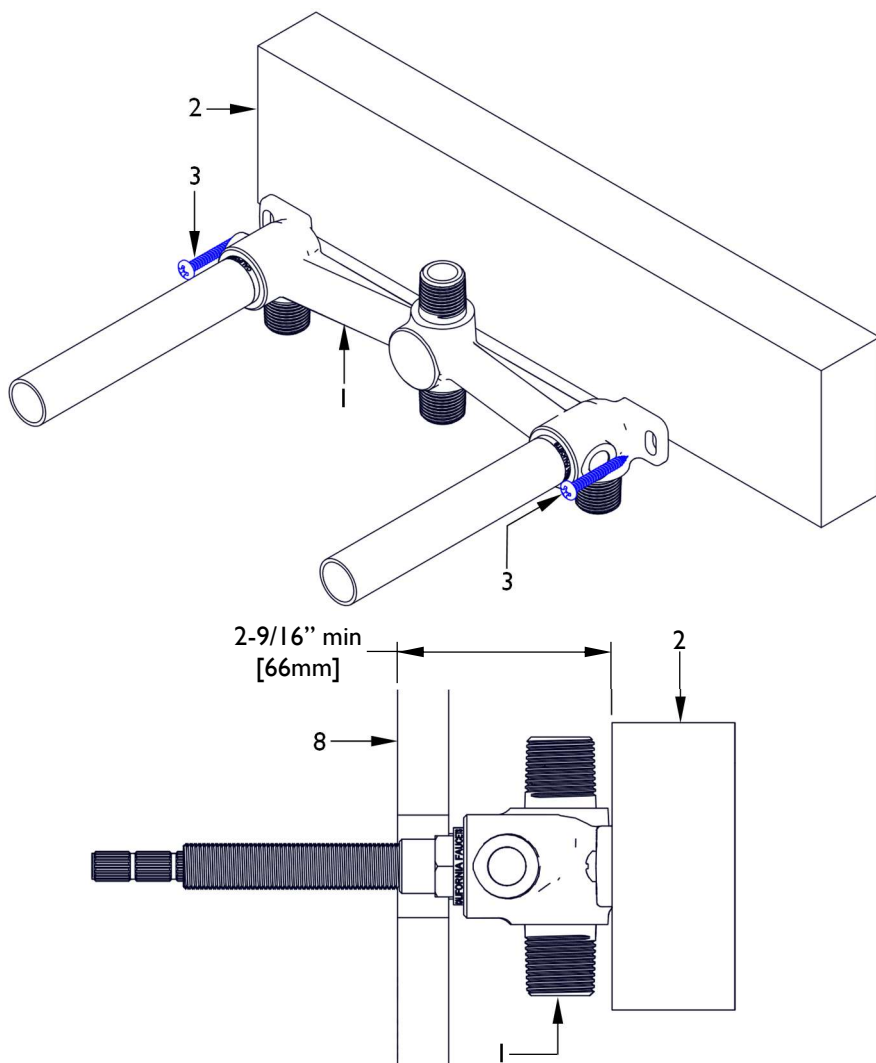


NOTE: All fixtures and fittings shown above are NOT included except for the valve (2-VR)

2 MOUNTING VALVE

Important: It is the responsibility of the INSTALLER to have some knowledge of finished wall thickness before proceeding. INSTALLER must ensure that the wall rough is properly secured to all framing construction. All local building and plumbing codes and/or ordinances, shall be followed to confirm proper secure installation.

- Determine desired height and location of VALVE (1) based on shower or tub installation. BRACING (2) must be installed at least 2-9/16" [66mm] from projected FINISHED WALL (8)
- Mount VALVE (1) to BRACING (2) using two wood SCREWS (3) (not included)

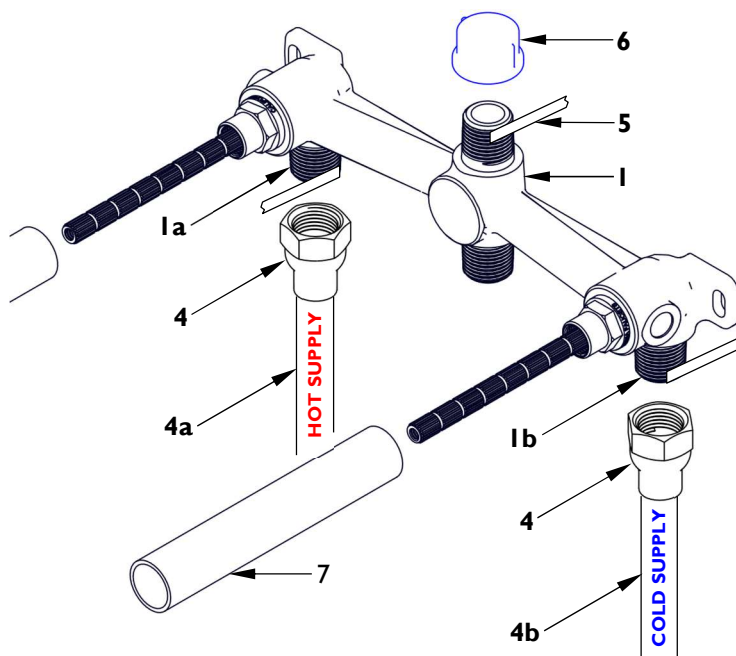


3 PREPARING SUPPLY LINES

NOTE: The following shows a typical Tub Only installation

Important: It is the responsibility of the INSTALLER to refer to the various installation methods shown in STEP 1 to determine proper rigid copper PIPES (4a & 4b) lengths.

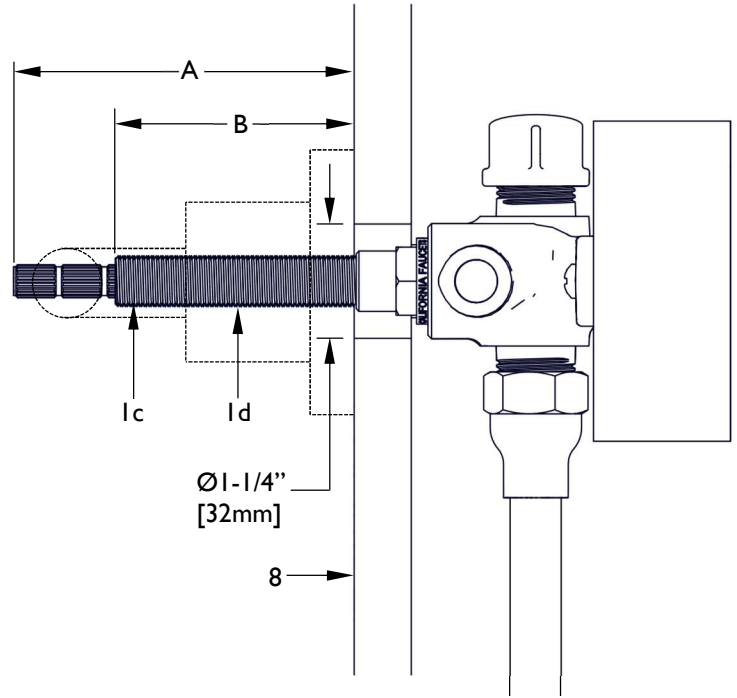
- Preassemble FITTINGS (4) prior to attaching to VALVE (1). All soldering of FITTINGS (4) shall be performed a minimum of 4" away from VALVE (1)
- Apply 2 to 3 wraps of thread sealant tape (5) (not supplied) onto threads of VALVE (1). Secure HOT SUPPLY (4a) to HOT INLET (1a) and COLD SUPPLY (4b) to COLD INLET (1b)
- Secure a 1/2" NPT CAP (6) (not supplied) onto unused outlet
- Assemble additional fittings as needed based on type of installation
- Remove MUDGUARDS (7)
- Connect water supply to preassembled FITTINGS (4) and check all connections for leaks



4 PREPARE OF HANDLE TRIM

- FINISHED WALL (8) shall have 1-1/4" [32mm] through-holes for the STEMS (1c) and ALL-THREADS (1d)
- When fitting handle, it may be necessary to shorten broach STEM (1c) and/or ALL-THREAD (1d) to eliminate gap between handle & escutcheon
- Use table below to determine dimensions **A** and **B**

Series	A" [mm]	B" [mm]
30	1-3/4" [44]	7/8" [22]
33, 35	2-1/2" [64]	1-1/2" [38]
34	2-7/16" [62]	1-1/2" [38]
37, 38	1-1/16" [27]	1/4" [6]
39	1-3/8" [35]	3/16" [5]
40	1-1/16" [27]	3/16" [5]
41	1-1/8" [29]	3/16" [5]
45	2" [51]	1-1/8" [29]
46, 47	2-5/16" [59]	1-1/2" [38]
48	2-3/8" [60]	1-5/8" [41]
52, 53	1-3/8" [35]	1-1/8" [29]
56	2-3/8" [60]	1-9/16" [40]
60, 61	2-1/4" [57]	1-1/2" [38]
62	13/16" [20]	1/4" [6]
65, 66	1-7/8" [48]	1-1/8" [28]
70	1-3/8" [35]	3/4" [19]
74	3/4" [19]	3/16" [5]
77, 78	1-5/16" [33]	5/8" [16]
77R, 78R	1-1/8" [29]	5/8" [16]
80	1-9/16" [40]	7/8" [22]
85	1-1/2" [38]	3/4" [19]
87	1-1/4" [32]	3/8" [9]
C1	1-3/8" [35]	5/8" [16]
C2	1-3/8" [35]	3/8" [10]
E3	1-1/8" [29]	1/4" [6]
E4	7/8" [22]	1/4" [6]
E5	7/8" [22]	1/4" [6]



5 RE-ALIGNING CARTRIDGE

Important: Shut off water supply before re-aligning cartridge.

- Slightly loosen in a CCW direction the cartridge NUT (1e). Place HANDLE (9) on STEM (1c) and tighten in a CW direction until desired alignment of handle is achieved. Retighten cartridge NUT (1e) to factory torque setting of 14 ft-lbs [19 Nm]

Warning: Cartridge NUT (1e) must be properly torqued to prevent possible failure and/or water damage.

