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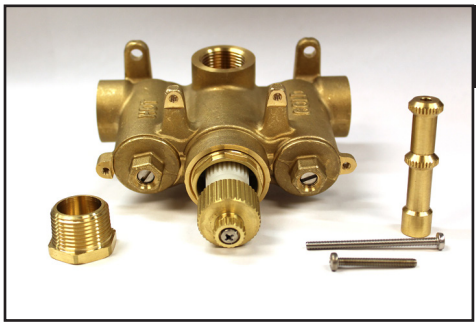


UNIVERSAL CONCEALED THERMOSTATIC ROUGH VALVE

ROHL Spa Shower

R1085BO

FEATURES

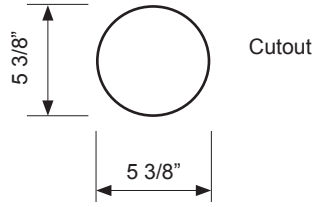
- Service stops included
- Primary screens at the cartridge. Remove cartridge to flush system.
- Forged
- Bottom outlet for tub filler only
- Temperature control only, must order R1040R volume control separately
- Back of valve to finished wall 4 1/2” min., 5 3/4” max.
- Flow rate 14 GPM at 60 PSI
- Extension kit for Perrin & Rowe® trims included. Cut to length desired.
- Extension kit for Country Bath, Palladian, Vincent, Michael Berman and Lombardia trim comes with trim plate
- 3/4” inlets, 3/4” female outlet standard on top
- Complete with mud guard for installation
- If PEX is utilized, oversize the supply line to 1” for full flow capacity
- Rough can be used with multiple product lines:
  - -Perrin & Rowe®
  - -Italian Country Bath
  - -Palladian
  - -Vincent
  - -Michael Berman
  - -Modern Lombardia
  - -Transitional Avanti
- To complete package, must order trim set

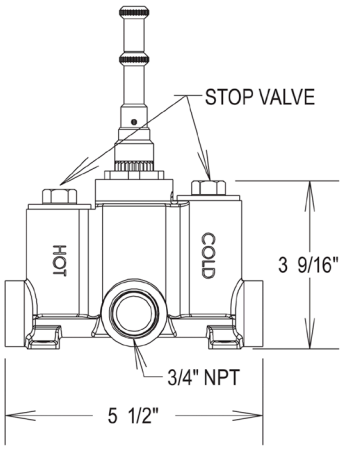
COLORS/FINISHES

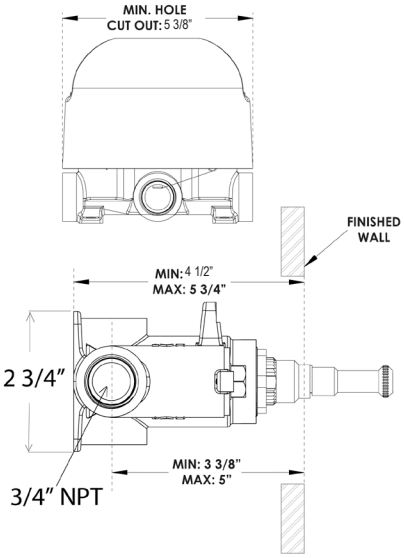
- Rough only

WARRANTY

- Limited Lifetime







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INSTALLATION INSTRUCTIONS

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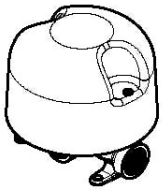
ROHL LLC
3 PARKER LN
IRVINE, CA 92618
888-777-9762
www.rohlhome.com

Installation & User Guide

ROUGH ONLY:
R1085BO



THERMOSTATIC TRIM SETS:

A4014	U.5585L/LS or U.5585X
A4814	U.5565L/LS or U.5586X
A4214	U.5785LS or U.5786X
A2914	A4714
A4914	MB1940

VOLUME CONTROL TRIM SETS:

A4912	U.3240L/LS or U.3241X
A2912	U.3774LSP or U.3775X
A4712	U.3230
A4812	U.3231
A4012	MB1951
A4212	

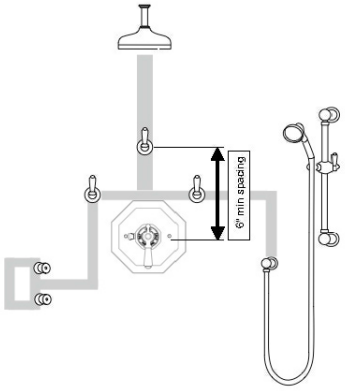
R1085BO ROUGH VALVE

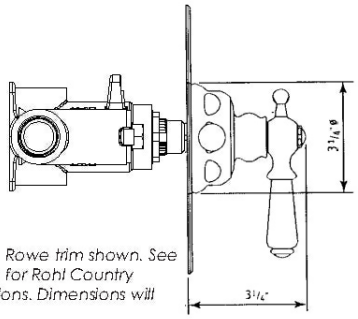
GENERAL WARNING AND NOTES:

1. Warning: Must add volume control R1040R for each function. This valve is not included to operate. One volume control and a diverter may also be used for multiple functions.
2. The bottom outlet is for volume control and tub filler only. Use of bottom outlet and top outlet together will result in inconsistent temperature delivery.
3. The rough kit and trim kit are separate packages. You must order both in order to have a complete package.
4. Before you proceed: We recommend you engage the services of a licensed plumber to install this product.
5. It is possible that there may be a temperature variation between fittings supplied with the mixer. If two functions are to be used at once, the system should be designed using only one of the outlets.

SPECIFICATION AND ROUGH IN MEASUREMENTS:

1. The cavity should be shaped per the valve template or mud guard supplied to enable the mixer to be removed for servicing. The back plate is used to hold the mixer body and should be set between 4 1/8" to 5 3/4" deep into the wall cavity from the finished face.
2. Inlet and Outlet – ¾" NPT
3. Factory temperature setting: 100°F (38°C)
4. Temperature range: 52° - 118°F (11°-48°C)
5. Temperature Hot supply: 149° - 180°F (65°-82°C)
6. Temperature Cold supply: 50° - 72°F (10°-22°C)
7. Temperature Stability: ±3°F
8. Ideal performance obtained with equal hot & cold pressures.





Perrin & Rowe trim shown. See website for Rohl Country Dimensions. Dimensions will vary.

INSTALLATION OF THE ROUGH R1085BO

1. Choose a location for the body and create a solid attachment point with a horizontal stud and frame support.
2. Attach rough body to stud using wood screws.
3. Please ensure that rough body is level in respect to the floor, trim wall, and stud.
4. Position rough body within MIN/MAX range as noted on mud guard.
5. **ALIGNMENT CHECKING PROCEDURE**
   a. Place a straight edge across the wall cavity, both horizontally and vertically.
   b. The measurement from the straight edge to the front of the mixer body should be equal in both directions.
   c. If alignment cannot be achieved then the use of packing washer behind the back plate should be used to align.
   d. Failure to do the above could result in damage to the thermostatic cartridge.
6. **WATER FLOW PROCEDURE**
   a. Remove thread protectors.
   b. Assemble fittings before attaching to rough body.
   c. Place thread sealant on all threaded fittings then install onto rough body.
   d. Make sure cold water supply attaches to "COLD" inlet (RIGHT side inlet) and hot water supply attaches to "HOT" inlet (LEFT side inlet).

BEFORE PROCEEDING: PLEASE TEST THE ROUGH KIT BY OPERATING THE SYSTEM WITH THE FLOW CONTROL ONLY, CHECKING ALL CONNECTIONS ARE SECURE.

7. **FLUSHING INSTRUCTIONS**
   a. Completely close flow on both hot and cold check valves.
   b. Remove thermostatic cartridge 10308 & 9.13554 from rough body.
   c. Open flow on cold-side check valve and allow debris to exit through rough body. Close check valve when system is flushed.
   d. Open flow on hot-side check valve and allow debris to exit through rough body. Close check valve when system is flushed.
   e. Re-install thermostatic cartridge 10308 & 9.13554 when complete.
   f. Reset temperature per "OPERATION" section of these R1085BO installation instructions.

   NOTE: Primary screens are on the cartridge only. It is suggested the system is flushed.

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INSTALLATION INSTRUCTIONS

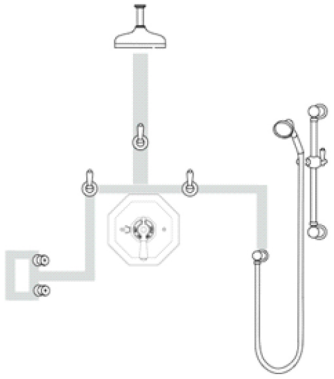
TYPICAL DESIGN

Please note: Most installations are custom. This is a rough guide for plumbing a simple shower system.

VOLUME CONTROL(S) R1040R MUST BE ORDERED SEPARATELY!

Pictured to the right is a typical thermostatic system:

1. There is one thermostatic valve R1085BO with Trim Kit U.5585L.
2. There are three functions:
   - Showerhead
   - Handshower
   - Body Sprays
3. There are separate volume controls for each function.
   - A high flow diverter U.5542VO or U.5562BO is available, but you need one volume control at least to control a diverter system.
4. The bottom outlet is for **volume control and tub filler only.** Use of the bottom outlet and top outlet together will result in inconsistent temperature delivery.
5. California requires only one outlet runs at one time. Instead of three volume controls, use one volume control R1040 with 3way diverter R1062. This is not pictured. Call for more information if need.

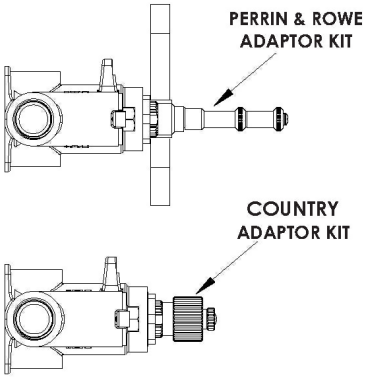


SYSTEM REQUIREMENTS:

1. 50 PSI is recommended if you run 2 outlets at once.
2. Water heater capacity: 100 gallon recommended. The valve runs at 14 gallons per minute (GPM) at 60 PSI. For an on demand water heater system, we recommend a 25 gallon standard water heater plumbed in line for consistent temperature delivery.
3. Body sprays should be installed in a loop for consistent flow.
4. A large drain may be necessary if 2 or more valves are in one shower.
5. Well systems must have consistent flow and pressure for the valve to operate properly. Fluctuating pressure for the valve will cause inconsistent temperature delivery. Check your system requirements before installation.

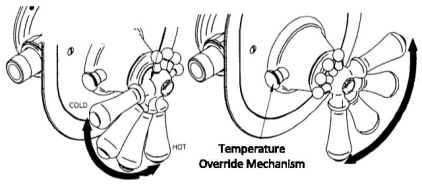
INSTALLATION OF THE FACEPLATE TRIM AND THERMOSTATIC CARTRIDGE FACTORY SETTING

- The rough valve is preset from the factory at 100 degrees. Do no move this setting. If moved, re-set according to instructions. THIS IS THE MOST COMMON INSTALLATION ERROR.
- Perrin and Rowe Adaptor:
  - Discard trim set adaptor plate from the trim set.
  - Install the adaptor with the hole in the adaptor at 12 o' clock. Adjust the length of the adaptor according to the instructions as needed.
- Rohl Country Adaptor:
  - The brass adaptor should be installed without moving the factory setting on the cartridge.
  - The extension kit is included with the trim set. Use as many adaptors as needed.
- To set the temperature at 100 degrees:
  - Use a digital thermometer on an open outlet.
  - When the temperature is 100 degree, shut-off the water.
  - Install the faceplate with the lever at the 6 o' clock position.



OPERATION

- Rotate the flow control lever or cross handle counterclockwise a quarter turn to turn ON the shower.
- The thermostatic cartridge has been set to give a temperature of 100°F (38°C), this is when the temperature control lever is in the vertical position/or the 'dot' on the boss is at the top.
- A cold shower can be achieved by rotating the lever or cross handle clockwise. (You cannot get an absolute cold shower, some hot water will be mixed).
- A hotter shower can be achieved by pulling out the temperature override mechanism (on Perrin & Rowe, for Rohl Country, push the button in) and rotating the lever or cross handle in a counterclockwise direction, up to a maximum of 118°F (48°C).
- Please return the temperature control lever to its pre-set position when finished.



Perrin & Rowe trim shown.
Push in on Rohl Country.

Anti-Scald:
The thermostatic cartridge will automatically shut down completely on failure of either the hot or cold supply. This is especially important if your shower is to be used by children or the elderly. The thermostatic cartridge will reactivate when the supply failure has been corrected.

Cartridge Performance Data For Thermostatic Unit Only

PSI	GPM
45	12.5
60	14

ROHL WARRANTY POLICY
All products supplied by ROHL carry warranties against manufacturing defects.

ROHL LLC products carry a Limited Lifetime Warranty.

ROHL LLC will provide free of charge, at its options, replacement part(s) or product (or a comparable alternative product) to replace those which have proven defective in materials or workmanship.

For full ROHL LLC Warranty, please contact ROHL at 800-777-9762 or visit www.rohlhome.com.

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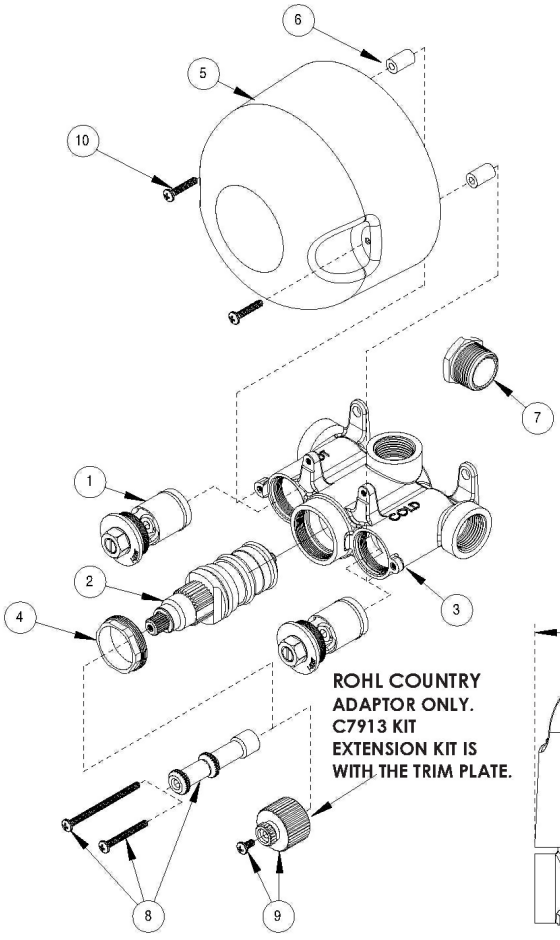
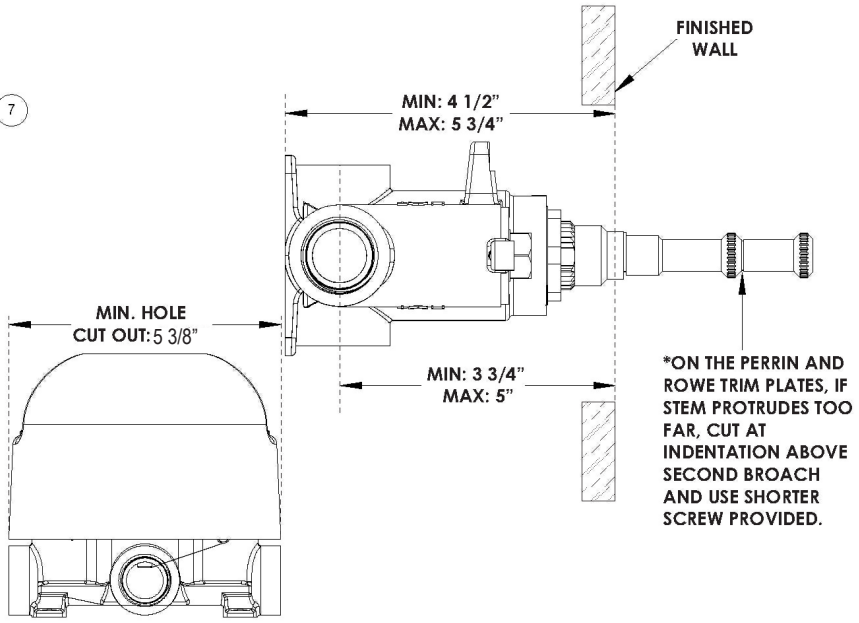
INSTALLATION INSTRUCTIONS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1-002	CHECK VALVE FOR SHUTOFF THERMO	2
2	9.13554	CA43 THERMOSTATIC CARTRIDGE	1
3	10325	THERMOSTATIC BODY	1
4	10326	THERMO BODY LOCKING COLLAR	1
5	10336	THERMOSTATIC BODY MUD GUARD	1
6	10345	THERMOSTATIC MUD GUARD SPACER	2
7	10668	PLUG 3/4" NPT	1
8	3-051	ADAPTOR STEM KIT FOR PERRIN & ROWE	1
9	3-052	ADAPTOR STEM KIT FOR NICOLAZZI	1
10	92033	SCREW, PHILLIPS PAN HD #8-32 x 7/8"L	2
11	C7913SET	COUNTRY EXT. KIT/INCLUDED IN TRIM (NOT INCLUDED OR PICTURED)	1





Consult your local ROHL showroom for additional information and specifications. For complete warranty details and a list of showrooms, go to www.rohlhome.com.

INSTALLATION INSTRUCTIONS

TROUBLESHOOTING

	ROHL	TROUBLE SHOOTING GUIDE	R1085BO ROUGH ONLY	FURTHER ATTENTION	NOTES
	INDICATION OF MALFUNCTION	CAUSE OR DIAGNOSIS	POSSIBLE REMEDIES		
1	The water does not get hot enough, but there is variation in temperature.	The pre-set temperature is too low. Verify with the face plate off, to test the cartridge, by rotating the stem counterclockwise all the way for the hottest setting.	Remove the faceplate and reset the valve according to the instructions.	Do not automatically change the cartridge.	The cartridge setting was moved during installation.
2	The water does not get cold enough, but there is variation in temperature.	The pre-set temperature could be too high.With standard settings, absolute cold is not possible.	Remove the faceplate and reset the valve according to the instructions.	Do not automatically change the cartridge.	If you lower the settiing to get colder water, you could get less hot water.
3	On the cold setting, there is hot water, and on the hot setting, there is cold water. There is no mix of hot and cold at all.	The lines could be reversed. **The plumber must make this decision.**	The cartridge must have hot in the hot side and vice versa. Have the plumber verify by feeling the pipes, or removing the cartridge, that the water lines are reversed before switching the lines.	Switching the pipes can be expensive. The diagnosis must be done at the home.	
4	The water temperature does not change when the handle is moved.	The cartridge stem is not contacting the handle assembly.	3 possible things might have happened: 1. Stem may be too short. Check for connection. 2. The brass adaptor 10328 may be missing. 3. The cartridge might be faulty.	Do not automatically change the cartridge.	
5	After a period of time, the water gets cold. It starts out hot, but then goes cold.	You might be running out of hot water. Ask how long, in minutes, this takes to happen.	Thermostatic valves can run at 14 gallons per minute. Find out the water heater capacity and divide by the length of the shower in minutes for a function, i.e. 50 gallon capacity divided by U.5205 flow of 6.25 GPM = appx. 8 minutes of hot water.	Do not automatically change the cartridge.	
6	The flow gradually decreases	There could be debris in the line.	Clean the filters and flush the lines according to the instructions.	Do not automatically change the cartridge.	
7	The flow stops	The built in safety feature is stopping flow immediately if there is a decrease or increase in temperature.	1. The valve could be operating properly. 2. There could be complete blockage in one of the supply lines.	Do not automatically change the cartridge.	
8	There is no flow on start-up	1. There could be complete blockage in one of the supply lines. 2. The non-return lines may not be opening. 3. Check the volume control is working.	1. Clean the filters and flush the lines according to the instructions. 2. Check the non-return lines are installed correctly. 3. Check that adaptor 9.15402 is in place on volume control.	Do not automatically change the cartridge.	
9	Noise in the valve	1. Debris is causing noise. 2. Check the one way valves.	1. Flush the system. 2. Change the one way valve.	The valve cannot make noise by itself. Changing the cartridge is the last option.	