

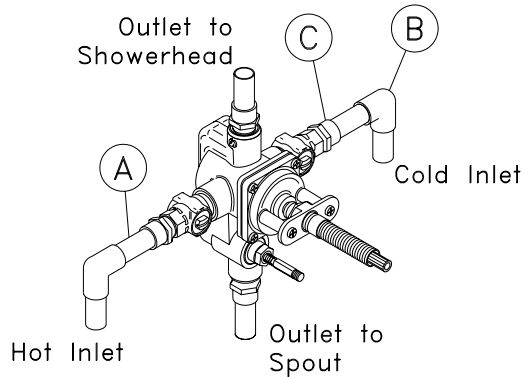


Installation Instruction for Valve: DFPHY.ID
Trim Application: Pressure Balance Tub & Shower

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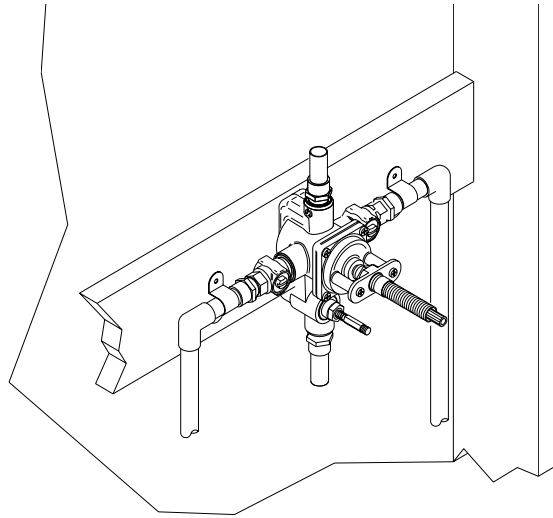
A Phylrich International Company

Step 1



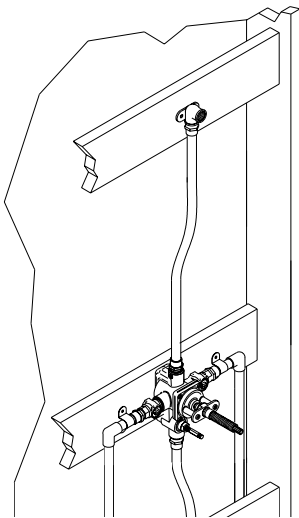
Remove plastic tile guide, but do not discard. Attach copper lines (A) and elbows (B) using $\frac{1}{2}$ " male adaptor (C) to the valve as needed for the installation. Do not apply heat directly on valves. Excessive heat will damage rubber and plastic seals and will void the warranty.

Step 2



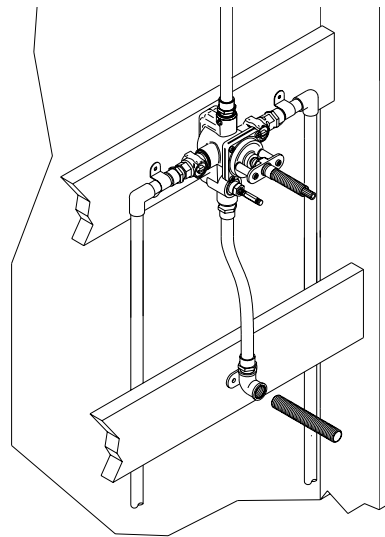
Refer to page P-6 to determine the proper rough in for the valve. Install crossbeams at those locations and secure valve. Connect valve inlets to hot and cold water supplies.

Step 3



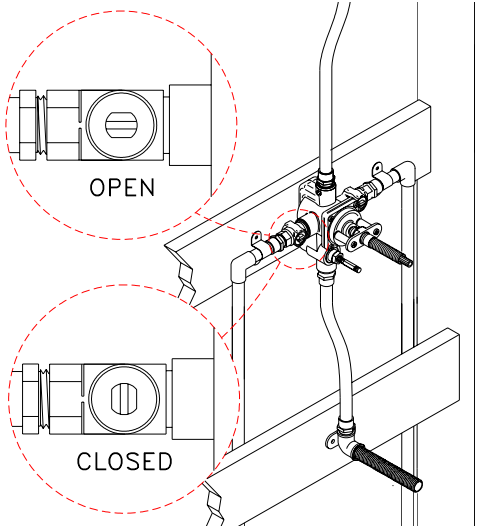
Determine the location for the showerhead. Install a crossbeam and secure a brass elbow.

Step 4



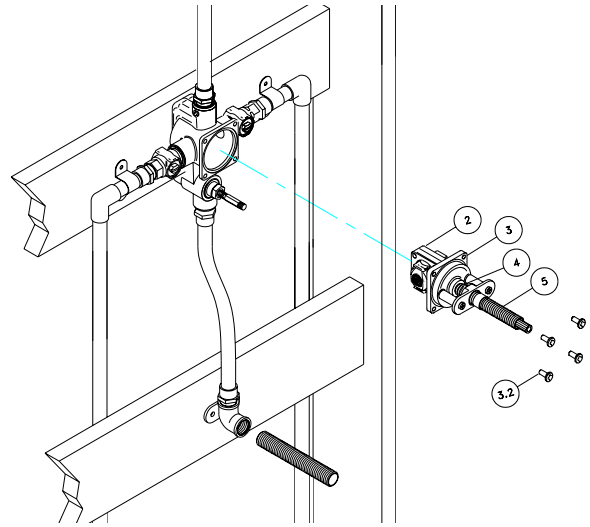
Determine the location for the tub spout. Install a crossbeam and secure a brass elbow. Attach a brass nipple to elbow.

Step 5



Close integral stops. Pressurize both hot and cold supplies.

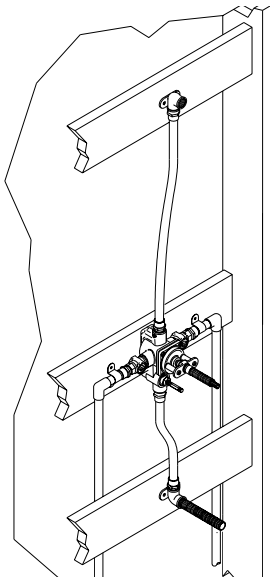
Step 6



Remove valve cover screws (#3). Pull stem assembly (#5), valve cover (#3.1) and cartridge (#2) as one complete unit. It is very important that this entire assembly be returned in the same configuration for the valve to function properly. Open integral stop to flush supply lines.

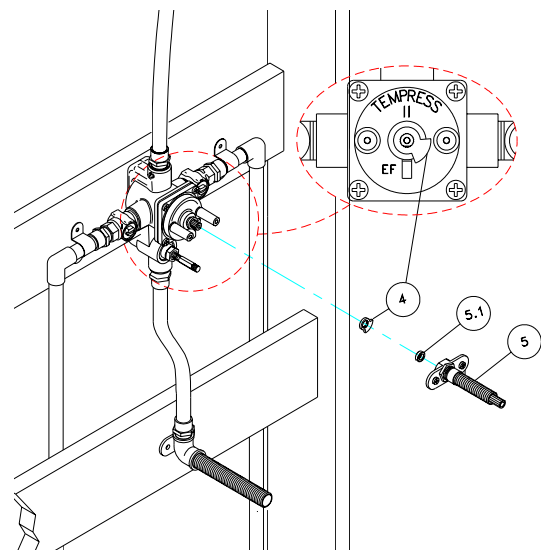
Failure to complete this step will void the warranty.

Step 7



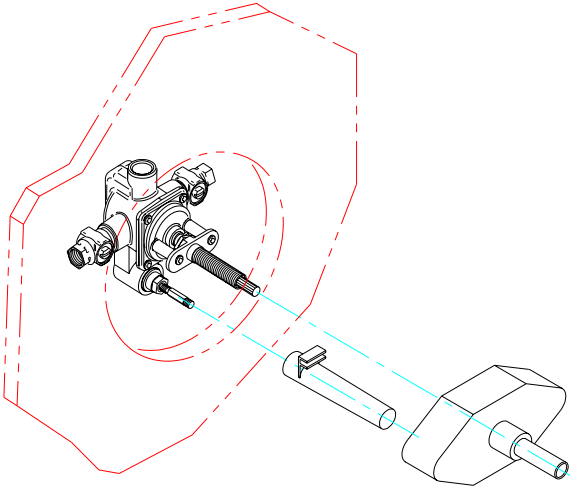
Close integral stop and reinstall cartridge, cover and stem assembly. **PRESSURE TEST THE VALVE.** Water pressure must be applied to both hot and cold inlets at the same time to pressure test this valve. Check all connections for leaks.

Step 8



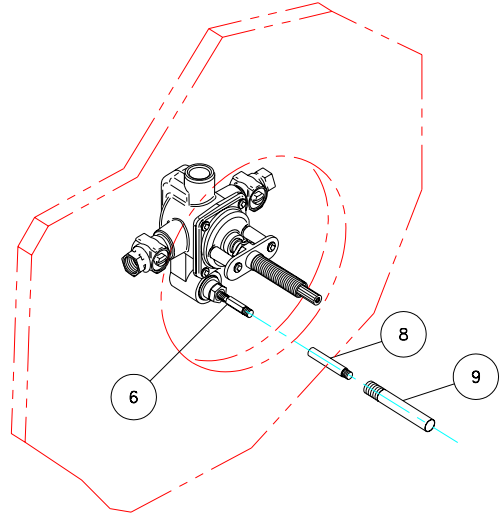
Should water drip from the outlets, remove the stem assembly (#5) including the nylon washer (#5.1) and temperature limit ring (#4). Rotate cartridge stem clockwise until it stops. Reposition mechanical stop so that it is on the right side of the valve cover stop (see inset). Reattach stem assembly. Close integral stops and reinstall tile guide and thread protectors. Wall is ready to be closed. (Note: allow adequate access to cartridges).

Step 9



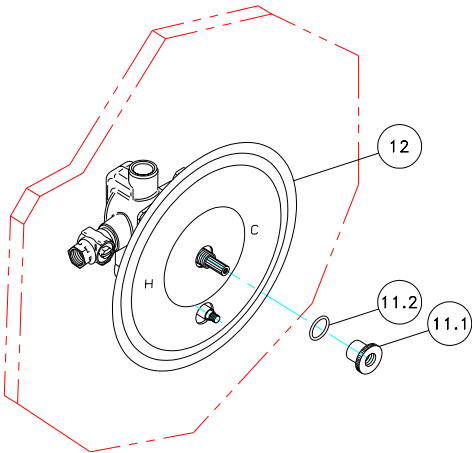
Once the finished wall is installed, remove tile guide and thread protectors.

Step 10



Attach finished diverter stem (#8) to spring loaded diverter valve stem (#6). Place finished diverter sleeve (#9) around diverter stem and secure to valve body by threading snugly onto the diverter bonnet (#6). Take care not to cross thread the very fine threads of this sleeve. The sleeve must be seated complete down on the bonnet.

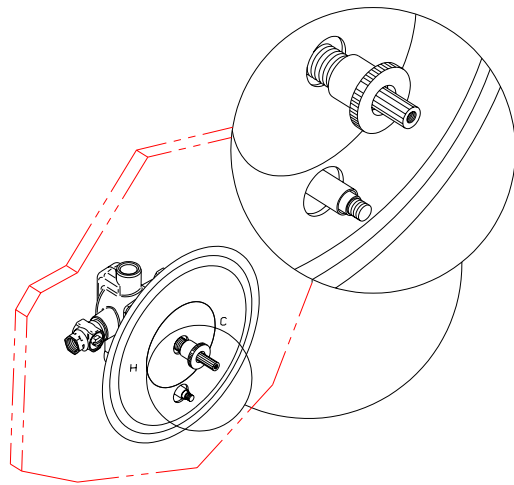
Step 11



Position the escutcheon plate (#12) so that the H and C are parallel to the floor and secure with escutcheon nut (#11.1) and O-ring (#11.2). Tighten the nut so that the plate cannot be rotated.

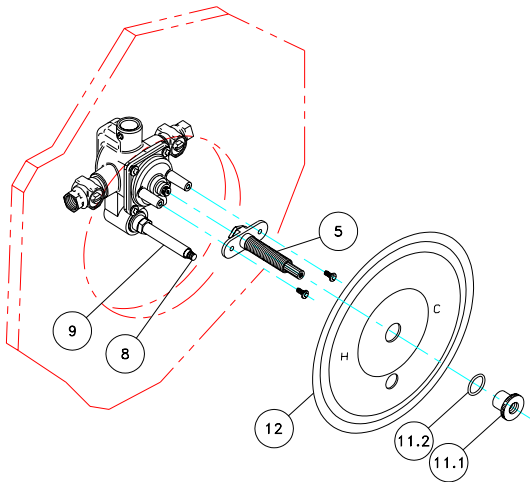
If the nut will not bottom out, please see Step 11A and Step 11B. If there are no threads for the nut to catch, please see Step 11C and Step 11D. If the diverter stem and sleeve do not extend pass the plate, please see Step 11D.

Step 11A



The handle stem and all-thread nipple may be trimmed if the valve was installed too far out of the wall. To determine the amount to be trimmed, measure the gap between the escutcheon plate and the bottom edge of the escutcheon nut.

Step 11B

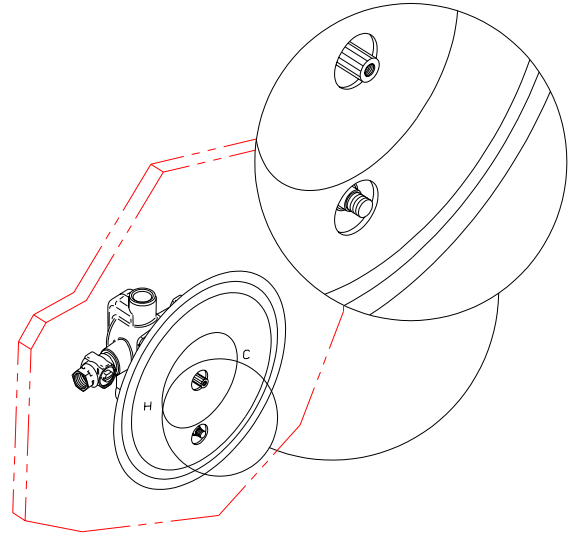


Remove nut (#11.1), O-ring (#11.2) and escutcheon plate (#12). Remove the stem assembly (#5) including aluminum bracket. Make appropriate cuts.

DO NOT CUT DIVERTER STEM (#8) AND SLEEVE (#9).

Reinstall stem assembly.

Step 11C

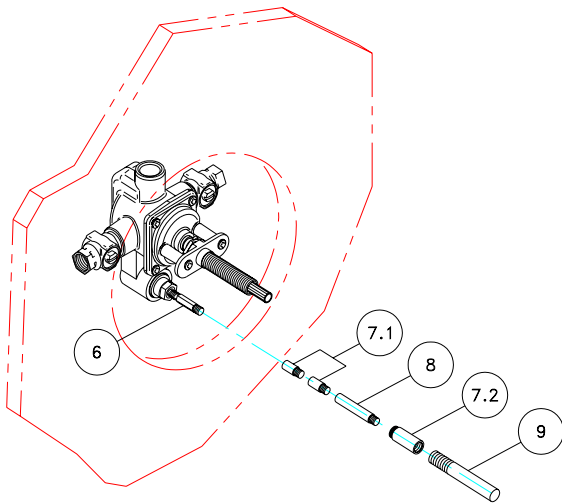


Extension kits are available should the valve be installed too deep in the wall.

If the valve stem is too deep, an extension kit may be purchased (part # STEM6.5).

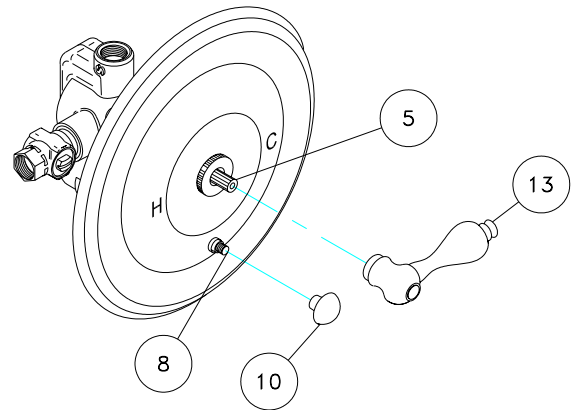
If the diverter stem is too deep, the extension kit (#7) included with your trim kit may be used to gain additional length. Please see Step 11D.

Step 11D



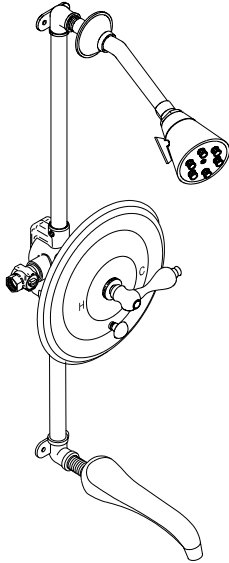
Remove faceplate. Remove finished sleeve (#9) and finished diverter stem (#8). Attach 1/2" diverter stem extension (#7.1) to diverter cartridge stem (#6). The 1/2" extensions may be stacked as necessary. Attach finished diverter stem (#8). Thread sleeve extension (#7.2) to diverter cartridge bonnet. Thread finished sleeve (#9) to the sleeve extension. Finished sleeve may be threaded into extension as required. Additional extension kits may be purchased.

Step 12



Attach handle trim to the stem (#5) so that the lever is at the 5:00 o'clock position. (Please refer to template attached to plate). Secure the handle in place by tightening the setscrews at the base of the handle or the 1/4-20 screw down the center of the handle, whichever applies. Attach diverter knob (#10) to diverter stem (#8).

Step 13



Insert the short end of the shower arm into the shower arm flange. Attach the shower arm to the 1/2" brass elbow installed behind the finished wall. Check the connections for leaks. Slide flange against the wall. Attach showerhead to arm, applying Teflon tape if necessary.

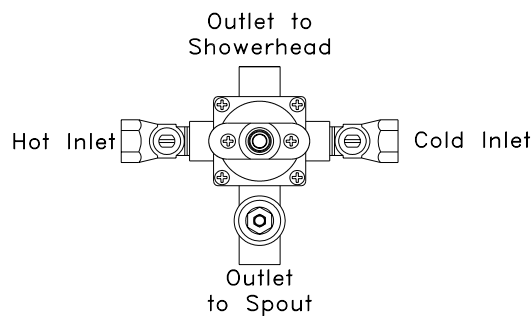
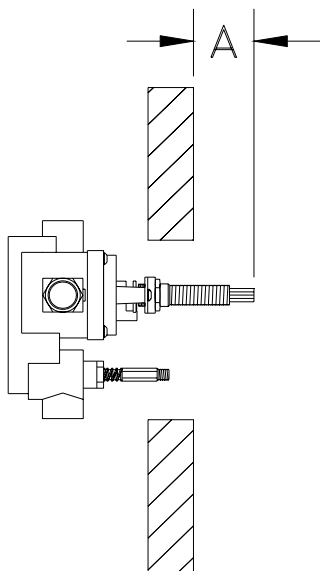
Attach tub spout to 1/2" nipple. Note that the bottom of the outlet on the spout must be a minimum of 2" above the lip of the tub.

The tub and shower is now ready to use.

ROUGH IN SPECIFICATIONS FOR PRESSURE BALANCING MIXING VALVE WITH INTEGRAL DIVERTER

ALL PHYLRICH VALVE INSTALLATIONS MUST FOLLOW THE MEASUREMENTS FOR "A" LISTED BELOW.

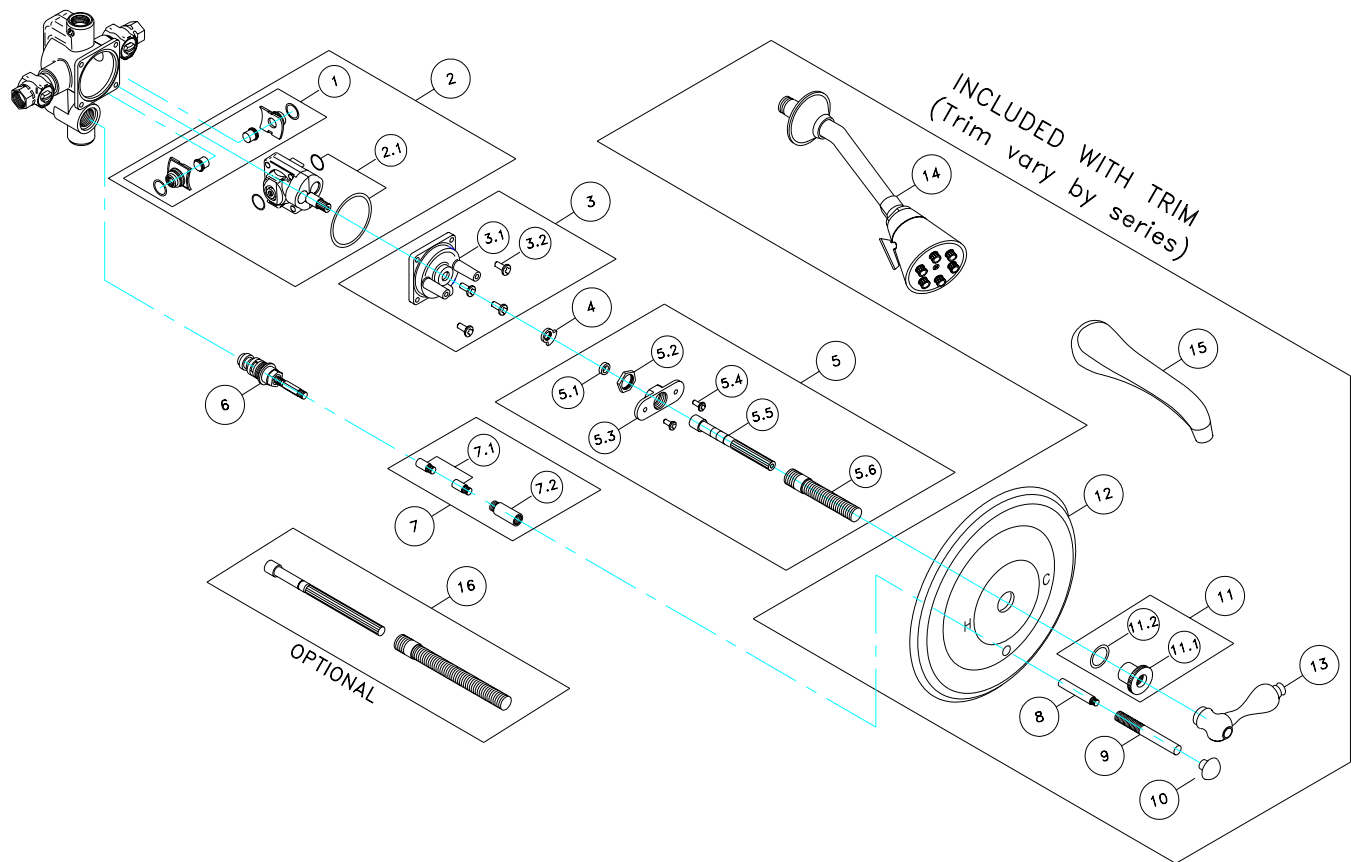
PLEASE CONSULT THE TRIM NUMBER FOR THE CORRECT ROUGH IN DIMENSION.



Doralfe®

<u>PRODUCT</u>	<u>ROUGH IN</u>
DPB2100.....	1-7/8"
DPB2102.....	2"
DPB2103.....	1-7/8"
DPB2111.....	1-7/8"
DPB2220.....	1-7/8"
DPB2221.....	1-7/8"
DPB2222.....	1-7/8"
DPB2223.....	1-7/8"

DFPHY/ID: Pressure Balancing Valve with Integral Diverter



Description

- | | |
|---------------------------------------|-------------------------------------|
| 1) Check Valve | 7) Diverter Stem Extension Kit |
| 2) Cartridge, with Checks and O-rings | 7.1) ½" Diverter Stem Extension |
| 2.1) O-ring Kit | 7.2) Diverter Sleeve Extension |
| 3) Valve Cover with Screws | 8) Diverter Stem |
| 4) Temperature Limit Ring | 9) Diverter Sleeve |
| 5) Mounting Bracket Assembly | 10) Diverter Knob |
| 5.1) Nylon Friction Washer | 11) Escutcheon Nut |
| 5.2) Brass Lock Nut | 12) Escutcheon Plate |
| 5.3) Aluminum Bracket | 13) Handle (Varies with Trim) |
| 5.4) M4 x 8 mm Machine Screw | 14) Showerhead |
| 5.5) Stem Extension | 15) Wall Spout |
| 5.6) All-thread Nipple | 16) 6-1/2" Extended Stem (Optional) |
| 6) Diverter Cartridge | |

Please contact your local distributor for questions after installation.

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