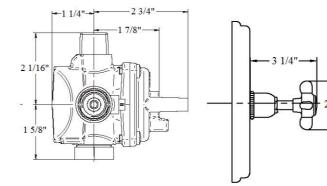
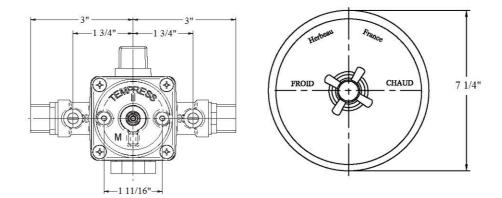
3077 – 'Royale' Pressure Balance Valve						
	Part #	Description				
<ul> <li>Image: Controls temperature.</li> <li>Controls temperature.</li> <li>For ½" rough pressure balance valve.</li> <li>Available finishes are French Weathered Brass (47), Polished Chrome (48), SoliBrass (49), Lacquered Matte Black Nickel (50), Old Gold (52), Old Silver (53), Polished Brass (55), Polished Nickel (50), Old Gold (52), Old Silver (53), Polished Brass (55), Polished Nickel (57), Satin Nickel (60), Antique Lacquered Brass (70), Lacquered Polished Black Nickel (71) and Lacquered Polished Copper (87).</li> <li>Please See Cleaning Instructions: http://herbeau.com/CleaningAll.pdf For Finish Care and</li> </ul>	Part #         01         02         03         04         06         07         08         09         10         11         12         13         01         02         03         04         05         06         07         09         11         12         13         14	<b>TRIM</b> Mounting Plate         Finished Screw         Lille Wall Plate         Bell Escutcheon &         Stem         Handle Screw         Washer         Rubber O-Ring         Handle Stem         Cross Handle         Finished Insert Holder         Black Logo Ceramic         Insert         Hex Nut         Royale Insert Black         Logo Assembly <b>ROUGH</b> Screw         Stem         Collar         Screw         Face Plate         O-Ring         Modular Cartridge         Collar         Hex Collar         Hex Nut         ½" Handle Ext. Kit         ¾4" Handle Ext. Kit				
Maintenance Information. <u>Please follow example when ordering parts for Royale Pres. Bal.</u> <u>Valve</u> To order part#10. Royale Cross Handle						
<ul> <li>To order part#10 – Royale Cross Handle</li> <li><u>950064xx</u></li> </ul>	He	erbeau. du Sanitaire depuis 1857				
• Please substitute finish number needed in place of $\underline{XX}$						

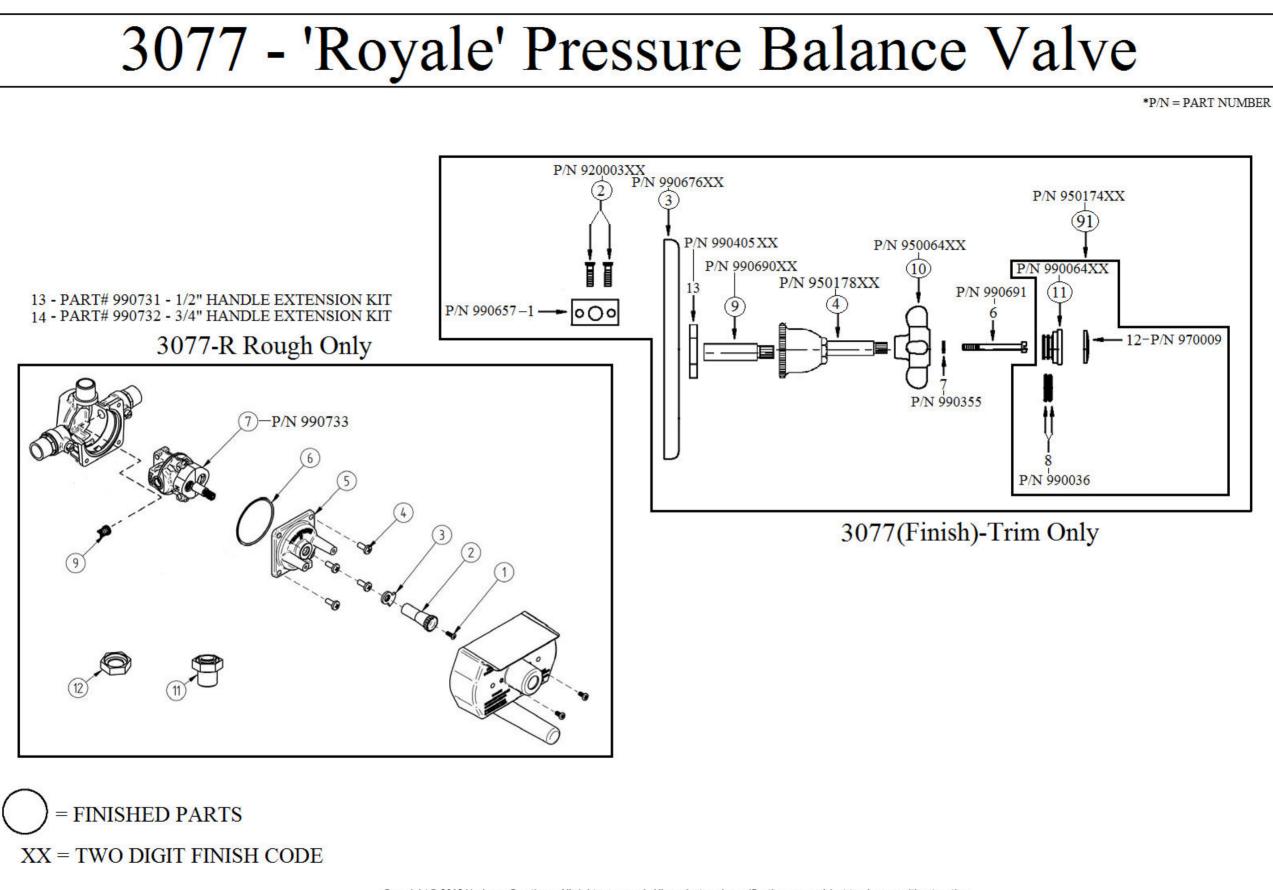
# 3077 - 'Royale' Pressure Balance Valve





1/4"

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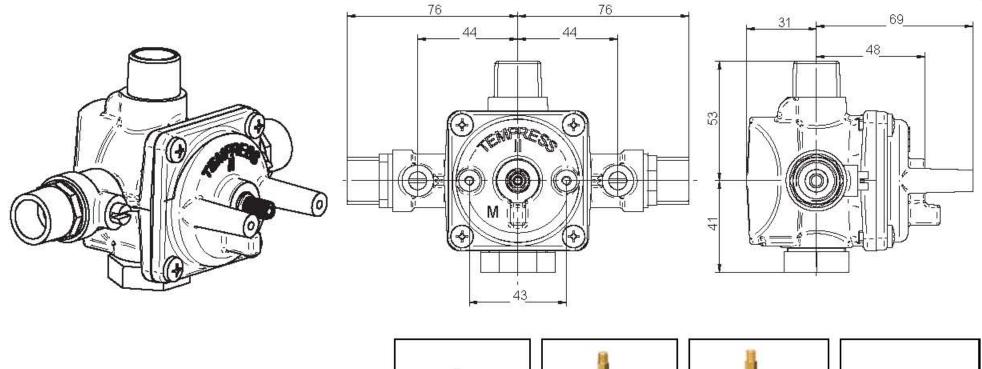
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### Description

The new modular pressure balance rough-in valve replaces the existing valve and offers the convenience of a second outlet that can be used with a diverter1, a dual outlet2 or can be capped off. Tempress pressure balance valves offer protection from scalding and cold shocks. The rotating handle control provides the user with precise temperature control and a wide comfort zone.

### Features and Benefits

- Built-in service ball stops for convenience
- Check valves to prevent cross flow, reduce water hammer and direct water to cartridge
- 1/2" NPT male-C x C universal connections
- Protection against scalding and cold water shock provided by the diaphragm which compensates for water pressure fluctuations
- Temperature control within 3.6°F (2°C) of set point even with a 50% water pressure drop
- Reversible cartridge allows back to back installation, eliminating additional piping
- Shallow valve body suitable for thin wall installations
- Reduced stop to stop dimension allows for smaller escutcheons (trims)
- Elimination of inserts inside the valve cavity reduces replacement parts and trouble shooting
- Reduced overall dimensions thanks to a redesign of the valve and addition of a captive inlet O-ring to divert water
- Visual cartridge alignment and seating facilitates cartridge replacement



### **Optional Fittings**

- 1 31150010 Automatic diverter assembly w/plastic link
- 1 31150015 Automatic diverter assembly w/brass link
- 1 31150005 Manual Diverter assembly
- <sup>2</sup> 44150330 Dual outlet fitting









31150010

31150015

31150005

44150330

### **Technical Data**

Min. operating pressure: 20 psi (140KPa) Max. operating pressure: 125 psi (860 KPa) Max. burst pressure: 500 psi (3450 KPa) Max. hot water temperature : 180°F (80°C) Flow rate - Shower 5.3 USGPM (20 I/min) @ 50 psi (345 KPa)

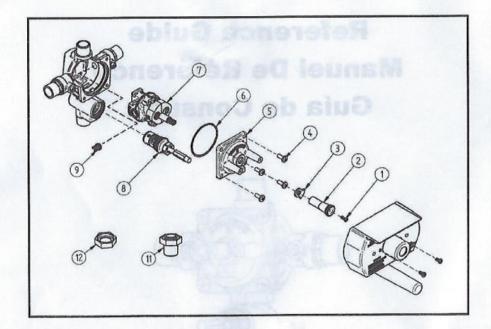
### Approvals

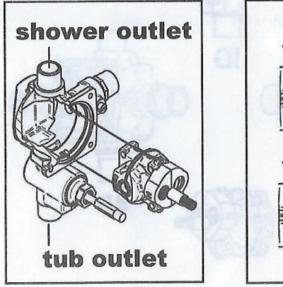
Approved to CSA B125, ASME A112.18.1, and ASSE 1016 standards.

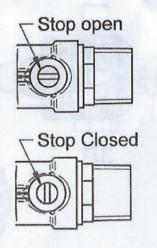


Product and specifications subject to change without notice.

## 3077-R







#### **BEFORE YOU BEGIN**

READ ALL DIRECTIONS PRIOR TO INSTALLATION. ANY ALTERATIONS MADE TO THE VALVE OR CARTRIDGE OR FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE DAMAGE OR IMPROPER INSTALLATION AND WILL NULLIFY THE WARRANTY AS WELL AS INCREASE THE RISK OF SCALDING.

- · Observe and adhere to all local plumbing codes.
- · Pressure-balancing valves are designed for use with hot water supplied from pressurized storage heaters and cannot be used in conjunction with low-pressure storage heaters (displacement water heaters).
- Refer to the protective cover (mud guard) markings for proper installation depth. This cover must remain in place for plastering and/or tiling etc.
- . If PEX (plastic) pipes are to be used, do not use PEX with a diameter of less than 3/4" between the valve and the tub spout (4-Port valves only). Smaller diameter pipes and fittings will cause stacking in the shower outlet,
- . It is not necessary to remove the pressure-balancing cartridge from the valve during normal soldering of connections using propane-butane gas. DO NOT USE OXYGEN-ACETYLENE. When soldering connections, do not use excessive heat. Open the stop valves when soldering inlets.
- · It is recommended that the pipes be flushed clean prior to installation, in order to avoid any problems later.
- Ensure that the stop ring is correctly installed per the instructions below, otherwise a user could potentially disengage the cartridge with minimal force to the external handle. This would cause the valve to fail and the user would be unable to turn the water on/off or control the temperature.

#### SPECIFICATIONS

Min. Operating pressure: Max. Operating pressure: Max. Burst pressure: Max. Hot water temp .:

20 psi [140 KPa] 125 psi [860 KPa] 500 psi [3450 KPa] 180°F [80°C]

Flow rate in USGPM [l/min] @ 50 psi [345 KPa]:

3P 3-Port:	Tub		Shower	
		-	5.3	[20]
4P 4-Port :	6.8	[26]	5.3	[20]
ID Diverter (Automatic):	6.5	[25]	5.3	[20]
ID Diverter (Manual):	-5.3	[20]	4.7	[18]

#### **ROUGH-IN NOTES**

When installing 4-Port (4P) and Diverter (ID) valves, please ensure that the fixed outlet is up, and the configurable outlet is down

Open the valve counterclockwise to verify the changes in outlet water temperature. The cartridge driver can be used to turn the cartridge stem.

To test pipe joints, and to inspect for any other possible leaks, pressurize both the hot and cold inlets before attaching the outer trim components.

For installations where the hot and cold water supplies are reversed, turn off the hot and cold water supplies and then simply take out the cartridge, rotate it 180° and re-insert as shown below.

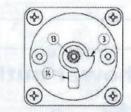


#### STOP RING INSTALLATION

Ensure that the stop ring (3) is correctly installed as follows

· Rotate the cartridge stem (13) fully clockwise. · Position the stop ring on the stem such that it rests against the stop post (14).

The stop ring must be correctly installed before the outer trim is installed.



See the trim installation instructions included with the trim components to properly install the hot limit stop.

#### INSTALLATION PROBLEMS

If water continuously drips from the spout or showerhead and/or there is reduced water flow:

- · Turn off the water supplies.
- · Remove the cartridge.
- · Check for debris in the valve body
- · Inspect o-rings for damage.
- · Re-grease with silicone-based grease only.
- · Re-install cartridge.

For additional troubleshooting help, please go to www.tempress.ca or contact Point of Purchase,

We reserve the right to change specifications without notice. Some valves may not appear exactly as shown. Valves are warranted to be free from not appear exactly all defects for a period of 18 months from the date of manufacture. Modular PBV Cartridges are warranted to be free from manufacturing defects for a period of 19 years from the date of manufactura. Additional warrantees may apply. All warrantly concerns must be directed through the original point of



## **3077 TRIM INSTALLATION**

### **TOOLS NEEDED:**

Slotted Screwdriver Plumber's Grease

Phillips Screwdriver

Small Adjustable Wrench

1. Remove black plastic wall guide and set aside:



2. Remove #2 white plastic stem from rough with Phillips screwdriver and set aside:





3. Take #1 mounting plate and place over center of rough with counter-sink holes facing up. Thread two #2 slotted screws into plate and leave them slightly loose:





4. Take #4 bell and ensure #9 stem is inserted into the back of #4 bell as shown below left. Insert the assembly through the center of #1 mounting plate and fit it onto the rough nipple. Now finish screwing #2 slotted screws down tight to secure mounting plate to rough. (This aligns bell & stem.) Remove #4 bell & #9 stem and set aside for next step:





5. Position #3 wall plate over #2 mounting plate center post. Make sure you align it with the "Herbeau France" lettering at the top and Froid (cold) and Chaud (hot) are aligned with the cold and hot rough inlets. Thread #13 locking nut over center post and tighten with adjustable wrench so wall plate is secure:







6. Install #4 bell & #9 stem into center of #3 wall plate and turn the stem fully clockwise. (Note that #4 bell & #9 stem will sit slightly above the wall plate so it can turn freely without scratching the wall plate.):





7. Install #10 cross handle onto #4 bell stem ensuring that cross handle is placed symmetrically:





8. Set #7 washer into center of #10 cross handle and thread #6 slotted handle screw into cross handle tightly with slotted screwdriver.





9. Take #91 logo insert and apply a small amount of plumber's grease to the rubber o-rings on the plug. Align correctly and insert the logo plug into the center of the cross handle:





10. Trim is now installed.