The Bell & Gossett Model 3DV Triple Duty Valve is three valves in one: a calibrated balance valve, a check valve, and an isolation/shut-off valve, providing all of the functions normally required on the discharge side of a pump in most HVAC systems. Its calibrated ball design allows you to accurately balance your system and throttle excess flow, and its memory stop provides the ability to return the valve to its set point after shut-off. In addition, its flow characteristic provides excellent system control. With its range of sizes and connections, it’s the perfect compliment for your pump and system needs.

- Calibrated nameplate and ball valve design provides accurate balance for your HVAC system.
- Integrated spring-loaded check valve prevents gravity circulation and backflow.
- Full port ball valve provides complete shut-off, allowing your pump to be removed without draining down your system.
- Extended handle and extended PT valves allow for easy installation of insulation while still allowing ∆P to be measured and valve to be adjusted.
- Cv ratings from 9 to 28, ideal for size and application.
- Sizes 1” through 2”.
- Pressure/temperature valves standard to allow for easy pressure drop and flow measurement.
Model 3DV - Triple Duty Valve

Extended handle and PT Valves for insulated systems
Choice of MNPT threaded or rotatable flange inlet connection. Allows you to mount valve directly to pump discharge or downstream of pump.

Calibrated nameplate for pre-setting and proportional balance. Memory stop allows you to re-set the valve to proper position after shut-off
Integrated spring-loaded check valve. Prevents backflow and gravity circulation
Full port ball valve provides ideal Cv and complete shut-off

Materials of Construction

Valve
Body: C37700 Brass
Ball: Chrome Plated C36000 Brass
Stem: C37700 Brass
Seating Rings: Glass and Carbon Filled PTFE
PT Valves: C37700 Brass w/ EPDM Seals

Check Valve
Body: Glass Filled Noryl
Seals: EPDM
Spring: Stainless Steel

Operating Limits
Max. Operating Pressure: 200 psi (1,378 kPa)
Temperature Range: -4˚F (-20˚C) to 250˚F (120˚C)
Accuracy
+/- 5% (when installed with w/ recommended pipe lengths*)
+/- 10% (when installed directly at pump discharge)

*see IOM V1000188 for recommended pipe lengths

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>SIZE</th>
<th>INLET CONNECTION TYPE</th>
<th>DIMENSIONS* in inches (mm)</th>
<th>APPROX. WEIGHT in lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>3DV-1NMF</td>
<td>1&quot;</td>
<td>NPT Male</td>
<td>7.22 (183.4)</td>
<td>3.34 (84.8)</td>
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<tr>
<td>3DV-1RFF</td>
<td>1&quot;</td>
<td>Rotatable Flange</td>
<td>7.34 (186.4)</td>
<td>3.34 (84.8)</td>
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<tr>
<td>3DV-1¼NMF</td>
<td>1¼&quot;</td>
<td>NPT Male</td>
<td>8.11 (206.0)</td>
<td>3.48 (88.4)</td>
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<tr>
<td>3DV-1¼RFF</td>
<td>1¼&quot;</td>
<td>Rotatable Flange</td>
<td>8.24 (209.3)</td>
<td>3.48 (88.4)</td>
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<tr>
<td>3DV-1½NMF</td>
<td>1½&quot;</td>
<td>NPT Male</td>
<td>8.91 (226.3)</td>
<td>3.61 (91.7)</td>
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<tr>
<td>3DV-1½RFF</td>
<td>1½&quot;</td>
<td>Rotatable Flange</td>
<td>9.07 (230.4)</td>
<td>3.61 (91.7)</td>
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<tr>
<td>3DV-2NMF</td>
<td>2&quot;</td>
<td>NPT Male</td>
<td>10.53 (267.5)</td>
<td>3.86 (98.0)</td>
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<td>3DV-2RFF</td>
<td>2&quot;</td>
<td>Rotatable Flange</td>
<td>11.15 (283.2)</td>
<td>3.86 (98.0)</td>
</tr>
</tbody>
</table>

* All dimensions +/-0.125 (3.2 mm) tolerance. Dimensions are subject to change. Not to be used for construction purposes unless certified.

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