<table>
<thead>
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<tbody>
<tr>
<td>Double Check Valve &amp; Detector Assemblies</td>
<td>3</td>
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<tr>
<td>Reduced Pressure Valve &amp; Detector Assemblies</td>
<td>4</td>
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<tr>
<td>FP Dual Check &amp; UL Ball Valves</td>
<td>5</td>
</tr>
<tr>
<td>Pressure Controls</td>
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<td>Pressure Drop Calculator</td>
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<td>13-15</td>
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<td>Bronze Backflow (1/2” - 2”)</td>
<td>13-14</td>
</tr>
<tr>
<td>Large Backflow (2-1/2” - 12”)</td>
<td>15</td>
</tr>
</tbody>
</table>
DOUBLE CHECK VALVE ASSEMBLIES

In a fire line application, many factors should be considered: installation time, pressure loss, size, weight, vertical approvals, country of origin, cost, product support, and maintainability all play a role in specifying the best unit for the application. Apollo backflow preventers offer you the best of all of these factors with the 4A and 4An Series backflow assemblies that are designed, manufactured, assembled, and individually tested in Apollo’s foundry and factories in South Carolina USA.

FEATURES

- Stainless Steel Body Available 2-1/2” – 8”
- FDA Epoxy Coated Ductile Iron Body Available 2-1/2” – 12”
- Bronze Body 1/2” – 2”
- Inline Available 1/2” – 12”
- n-pattern Available 2-1/2” – 12”
- Easiest Backflow Preventer to Maintain - No Special Tools Required
- Captured Spring Design for All Checks 1/2” – 12”
- Mix & Match Shutoff Options - OS&Y, Butterfly or Post Indicator
- Consistently Low Pressure Loss Across the Entire Flow Capacity Of The Assembly

See pages 8-10 for flow curves and pages 13-14 for dimensions or go to www.apollovalves.com for more details.

DOUBLE CHECK DETECTOR ASSEMBLIES

FEATURES

- Stainless Steel Body Available 2-1/2” – 8”
- FDA Epoxy Coated Ductile Iron Body Available 2-1/2” – 12”
- Type 1 & Type 2 Bypass Available
- Bronze Body 1”, 1-1/2”, & 2” (Type 2 only)
- Inline Available 1” & 1-1/2” – 12”
- n-Pattern Available 2-1/2” – 12”
- Easiest Backflow Preventer to Maintain - No Special Tools Required
- Captured Spring Design for All Checks 1/2” – 12”
- Mix & Match Shutoff Options - OS&Y, Butterfly or Post Indicator
- Consistently Low Pressure Loss Across the Entire Flow Capacity of the Assembly
- Patented Tri-Force™ Center Stem Guided Check on 2-1/2” & Larger 4A/4An Series
- Engineered Swing Check on 2-1/2” – 10” DC 4SG
- Approved for Horizontal and Vertical Installations
- UL/ULc Classified, FM Approved, ASSE, CSA, and USC
- (Contact for Approval Details, Updates, and Sizes)

See pages 8-10 for flow curves and pages 13-14 for dimensions or go to www.ApolloValves.com for more details.
REDUCED PRESSURE VALVE & DETECTOR ASSEMBLIES

FEATURES

• Stainless Steel Body: 2-1/2” – 8”
• FDA Epoxy Coated Ductile Iron Body 10” & 12”
• Bronze Body 1/2” – 2”
• Inline Available 1/2” – 12”
• n-Pattern Available 2-1/2” – 12”
• Easiest Backflow Preventer to Maintain - No Special Tools Required
• Captured Spring Design for All Checks 1/2” – 12”
• Consistently Low Pressure Loss Across the Entire Flow Capacity of the Assembly

• Tri-Force™ Center Stem Guided Check on 2-1/2” – 12”
• Mix & Match Shutoff Options - OS&Y, Butterfly or Post Indicator
• Approved for Horizontal 1/2” – 12”
• Approved for Vertical up 2-1/2” – 12” - 4An Only (Check Factory for Details)
• UL/ULC Classified, FM Approved, ASSE, CSA, and USC
  (Contact for Approval Details, Updates, and Sizes)

See pages 11-12 for flow curves and pages 12-14 for dimensions or go to www.apollovalves.com for more details.

RPDA2LF 4AN SERIES
RPDA2LF 4AN SERIES
RPDA2LF 4AN SERIES
RPDA2 4A SERIES

REDUCED PRESSURE DETECTOR ASSEMBLIES

FEATURES

• Stainless Steel Body: 2-1/2” – 8”
• FDA Epoxy Coated Ductile Iron Body 10” & 12”
• Type 1 & Type 2 Bypass Available
• Bronze Body 1”, 1-1/2”, & 2” (Type 2 Only)
• Inline Available 1” & 1-1/2” – 12”
• n-Pattern Available 2-1/2” – 12”
• Easiest Backflow Preventer to Maintain - No Special Tools Required
• Captured Spring Design for all Checks 1/2” – 12”
• Consistently Low Pressure Loss Across the Entire Flow Capacity of the Assembly

• Tri-Force™ Center Stem Guided Check on 2-1/2” – 12”
• Mix & Match Shutoff Options - OS&Y, Butterfly or Post Indicator
• Approved for Horizontal 1”, 1-1/2” -12”
• Approved Vertical up 2-1/2” – 12” - 4An Only (Check Factory for Details)
• UL/ULC Classified, FM Approved, ASSE, CSA, and USC
  (Contact for Approval Details, Updates, and Sizes)
• Bypass and Shutoff Handles Available on Either Side

See pages 11-12 for flow curves and pages 13-14 for dimensions or go to www.apollovalves.com for more details.

RPDA2LF 4A SERIES
RPDA2LF 4AN SERIES
RPDA2LF 4AN SERIES
RPDA2 4A SERIES
(LEFT HAND BYPASS OPTION SHOWN)
DUC 4FP SERIES
DUAL CHECK VALVE BACKFLOW PREVENTER

The Apollo® DUC 4FP Series Dual Check Backflow Preventer for Residential Fire Sprinkler Systems prevents backflow by either backpressure or backsiphonage from a cross-connection between potable water lines and substances that are objectionable, but not health-hazards.

FEATURES
- Low Pressure Loss
- Replaceable Check Modules
- Pressure drop at 30 gpm is less than 6 psi
- Complies with NFPA Standard 13D
- 5 year, domestic warranty
- Maximum Supply Pressure 175 psi
- Temperature Range 33°F - 180°F
- ASSE 1024
- UL/ULc Classified
- CSA B64.6
- Made in the USA

STANDARD MATERIALS LIST

<table>
<thead>
<tr>
<th>BODY</th>
<th>SPACER</th>
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<tbody>
<tr>
<td>Bronze (C84400)</td>
<td>Glass-Filled Noryl®</td>
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PART NUMBER MATRIX

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<th>4FP [XX]</th>
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<tr>
<td>INLET CONNECTION¹</td>
<td>INLET SIZE</td>
<td>OUTLET SIZE</td>
<td>OUTLET CONNECTION¹</td>
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<tr>
<td>4FP - STANDARD</td>
<td>5 - 1”</td>
<td>5 - 1”</td>
<td>A - FNPT</td>
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<tr>
<td>C - FEMALE METER THREAD</td>
<td>6 - 1-1/4”</td>
<td>6 - 1-1/4”</td>
<td>B - MNPT</td>
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</table>

¹ Not all inlet and outlet combinations are available. Please contact Customer Service for availability.

77C-UL SERIES
BRONZE FULL PORT BALL VALVE FOR FIRE PROTECTION TRIM & DRAIN SERVICE

The Apollo® 77CUL series ball valve is a UL listed shutoff valve for trim and drain purposes for fire protection services. Cast, machined, assembled and tested in Apollo’s South Carolina manufacturing plants, these valves feature a durable bronze body, premium “multi-fill” MPTFE seats and stem packing, and a “Solid Ball” design that delivers true full port flow performance.

FEATURES
- Multi-Fill PTFE Seats & Seals
- Blowout-Proof Stem Design
- Adjustable Stem Packing
- UL Listed for Fire Protection Service

94-A SERIES
FULL PORT BRASS BALL VALVE

The Apollo International™ 94A forged brass ball valves combine reliable operation with maximum economy. Ideal for plumbing, HVAC and gas service applications. Valves include most pertinent agency approvals.

FEATURES
- Full-Port
- Blowout-Proof Stem Design
- Adjustable Stem Packing
- UL Listed for Fire Protection Service
129FC SERIES
PRESSURE REDUCING VALVE

FEATURES
• Automatically Reduces High Pressure in the System
• Eliminates Pressure Fall Off
• Approvals - UL 300 psi
• Sizes 1-1/2” – 8” (Check Specification Sheet for Connections)
• Pressure Set Range 50 - 165 psi
• Globe/Flanged/Grooved/Screwed Connections
• Made in the USA

108FC SERIES
FIRE PUMP RELIEF VALVE

FEATURES
• Automatically relieves excess fire pump discharge pressure
• Approvals - UL/FM
• Sizes 3” – 8”
• Pressure Relief Setting Range: UL: 60 - 175 psi (3” – 8”) or 100 - 300 psi (3” – 6”)
  FM: 60 - 180 psi (3” – 8”)
• Globe/Angle and Flanged
• Made in the USA

1330FC
PRESSURE RELIEF VALVE

FEATURES
• Normally Closed, Increasing Inlet Pressure Opens Valve
• Relieves Line Pressure Created by Buildup
• Local Sense Line (Self-Contained Sense Loop)
• Available in 1/2” NPTF
• UL Control Number 39TZ
• Pressure Relief Setting Range 60 - 175 psi
• Acceptable for Thermal Expansion
• Made in the USA

16500 SERIES
CALIBRATED RELIEF VALVE

FEATURES
• Choice of 1/2” or 3/4” Inlet by 1/2” Outlet
• Pressure Range 50 - 175 psi, Calibrated in 25 psi Increments
• Cast Bronze Body, Stainless Steel Spring
• Acceptable for Thermal Expansion
• Made in the USA

40XT SERIES
THERMAL EXPANSION TANK

FEATURES
• Drawn Steel Construction
• Powder Coat Finish
• Field Adjustable (Max Pressure 150 psi)
• Corrosion Resistant Liner Connection
• Made in the USA
WHAT IT MEANS AND WHEN IT’S CRITICAL
Pressure drop is the amount of pressure loss through the backflow prevention assembly during different flowing conditions. There is no such measurement as a single pressure loss throughout the entire flow of each assembly; it is a varying measurement depending on flow amount. When lives are in danger and pressure is at a premium, make sure that you receive information on pressure loss that is truly what the valve is doing during the flowing conditions that are critical.

Apollo Valves publishes and will make available the FCCCHR@USC flow curves. If pressure is truly at a minimum in a life-threatening situation, make sure that your design and performance information is accurate.

PRESSURE DROP CALCULATOR
Apollo Backflow Preventers are designed to provide positive protection against backflow while also producing the lowest possible pressure drop at all flow rates.

Find accurate, 3rd party verified, pressure loss quickly & easily using the Apollo Backflow Pressure Drop Calculator.

PDC.APOLLOVALVES.COM

PRESSURE LOSS CURVE NOTES:
Flow curves directly reflect data collected by independent approval laboratories.
All data points are based on increasing flow data, from zero GPM to rated flow (opening curve).
For higher flow rates/pressure loss information - contact factory.
FLOW CURVES

DC 4SG & DCDA 4SG
FLOW CURVES

DC 4A (LBF) & DCDA 4A
FLOW CURVES

Pressure loss versus flow data as determined by independent approval agencies.
Pressure loss versus flow data as determined by independent approval agencies.
DC4A
FLOW CURVES

Pressure loss versus flow data as determined by independent approval agencies.
RP 4A (LBF) & RPDA 4A
FLOW CURVES

RP 4AN (LBF) & RPDA 4AN
FLOW CURVES

Pressure loss versus flow data as determined by independent approval agencies.
FLOW CURVES

DUC-4FP
FLOW CURVES

![DUC-4FP Flow Curves Graph]

RP4A
FLOW CURVES

![RP4A Flow Curves Graph]

DIMENSIONS

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<tr>
<th>FACTORY NO.</th>
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<th>DIMENSIONS (IN.)</th>
<th>NET WT. (LB.)</th>
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<td></td>
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<td>B</td>
</tr>
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<td>4A203T2</td>
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<td>11-1/8</td>
<td>7-3/8</td>
</tr>
<tr>
<td>4A204T2</td>
<td>3/4”</td>
<td>11-3/4</td>
<td>8-1/2</td>
</tr>
<tr>
<td>4A205T2</td>
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<td>14-5/8</td>
<td>8-1/2</td>
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<td>4A206T2</td>
<td>1-1/4”</td>
<td>18-5/8</td>
<td>9-7/8</td>
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<td>4A207T2</td>
<td>1-1/2”</td>
<td>18-3/4</td>
<td>9-7/8</td>
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<tr>
<td>4A208T2</td>
<td>2”</td>
<td>21-1/8</td>
<td>12-3/4</td>
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### LARGE BACKFLOW DIMENSIONS

**RP 4AN / RPDA 4AN & DC 4AN / DCDA 4AN**

---

**DIMENSIONS**

<table>
<thead>
<tr>
<th>SIZE (Centerline to Centerline)</th>
<th>2 1/2&quot;</th>
<th>65 MM</th>
<th>3&quot;</th>
<th>80MM</th>
<th>4&quot;</th>
<th>100MM</th>
<th>6&quot;</th>
<th>150MM</th>
<th>8&quot;</th>
<th>200MM</th>
<th>10&quot;</th>
<th>250MM</th>
<th>12&quot;</th>
<th>300MM</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>12.5</td>
<td>318</td>
<td>12.5</td>
<td>318</td>
<td>14</td>
<td>356</td>
<td>16</td>
<td>406</td>
<td>18.5</td>
<td>470</td>
<td>21</td>
<td>533</td>
<td>26.8</td>
<td>681</td>
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<tr>
<td>B (Lay Length Space - Butterfly Valves)</td>
<td>27.5</td>
<td>699</td>
<td>27.5</td>
<td>699</td>
<td>30.8</td>
<td>782</td>
<td>36</td>
<td>914</td>
<td>37.4</td>
<td>950</td>
<td>43</td>
<td>1092</td>
<td>N/A</td>
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<tr>
<td>C (Butterfly Valves - Flange to Top)</td>
<td>18.3</td>
<td>465</td>
<td>18.5</td>
<td>470</td>
<td>20</td>
<td>508</td>
<td>24.8</td>
<td>630</td>
<td>28.5</td>
<td>724</td>
<td>37</td>
<td>940</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>D (Centerline to bottom Butterfly Valves)</td>
<td>19.6</td>
<td>498</td>
<td>20</td>
<td>508</td>
<td>22.5</td>
<td>572</td>
<td>27.8</td>
<td>706</td>
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<td>815</td>
<td>40</td>
<td>1016</td>
<td>44</td>
<td>118</td>
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<tr>
<td>E (Centerline to width - Butterfly Valves)</td>
<td>8</td>
<td>203</td>
<td>8.4</td>
<td>213</td>
<td>9</td>
<td>229</td>
<td>10.9</td>
<td>277</td>
<td>12.9</td>
<td>328</td>
<td>13.5</td>
<td>343</td>
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<td>N/A</td>
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<tr>
<td>F (Centerline to width - NRS/PI Gate Valves)</td>
<td>11.8</td>
<td>300</td>
<td>13</td>
<td>330</td>
<td>14</td>
<td>356</td>
<td>17.8</td>
<td>452</td>
<td>21</td>
<td>533</td>
<td>24.5</td>
<td>622</td>
<td>30</td>
<td>762</td>
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<tr>
<td>G (Check Removal Clearance)</td>
<td>6</td>
<td>152</td>
<td>6</td>
<td>152</td>
<td>6</td>
<td>152</td>
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<td>216</td>
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<td>305</td>
<td>12</td>
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**TEST COCKS (NPT)**

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<tr>
<th>Test Cocks (NPT)</th>
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<th>1/2&quot;</th>
<th>1/2&quot;</th>
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<th>3/4&quot;</th>
<th>3/4&quot;</th>
<th>3/4&quot;</th>
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<tr>
<td>1/2&quot;</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>3/4&quot;</td>
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<td>20</td>
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**WEIGHTS**

<table>
<thead>
<tr>
<th>WEIGHTS (LB. / KG)</th>
<th>LB.</th>
<th>KG</th>
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<tr>
<td>Net Wt. (Less Shutoff Valves)</td>
<td>30</td>
<td>14</td>
</tr>
<tr>
<td>Ship Wt. (Less Shutoff Valves)</td>
<td>60</td>
<td>27</td>
</tr>
<tr>
<td>Net Wt. (w/ Butterfly Valves)</td>
<td>57</td>
<td>26</td>
</tr>
<tr>
<td>Ship Wt. (w/ Butterfly Valves)</td>
<td>118</td>
<td>54</td>
</tr>
<tr>
<td>Net Wt. (w/ NRS/Post Indicator Valves)</td>
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<td>38</td>
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<tr>
<td>Ship Wt. (w/ NRS/Post Indicator Valves)</td>
<td>145</td>
<td>66</td>
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<tr>
<td>Net Wt. (w/ OS&amp;Y Valves)</td>
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<tr>
<td>Ship Wt. (w/ OS&amp;Y Valves)</td>
<td>163</td>
<td>74</td>
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</table>

Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances (± 1/8" (3 mm) per joint)

Internal body connections are grooved on 2-1/2” to 10” sizes.

Internal body connections are flanged on 12” size.
# LARGE BACKFLOW DIMENSIONS

**RP 4A & RPDA 4A – DC 4A & DCDA 4A**

![Diagram of large backflow dimensions](image)

## DIMENSIONS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>2 1/2&quot;</th>
<th>65 MM</th>
<th>3&quot;</th>
<th>80MM</th>
<th>4&quot;</th>
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<th>200MM</th>
<th>10&quot;</th>
<th>250MM</th>
<th>12&quot;</th>
<th>300MM</th>
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</thead>
<tbody>
<tr>
<td>A (Butterfly Valves)</td>
<td>28</td>
<td>711</td>
<td>28.5</td>
<td>724</td>
<td>33.3</td>
<td>846</td>
<td>38.9</td>
<td>988</td>
<td>46.4</td>
<td>1179</td>
<td>56.3</td>
<td>1328</td>
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<td>N/A</td>
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<tr>
<td>A (Gate Valves)</td>
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<td>787</td>
<td>32</td>
<td>813</td>
<td>38</td>
<td>965</td>
<td>45.9</td>
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<td>53.4</td>
<td>1356</td>
<td>62.3</td>
<td>1582</td>
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<td>1664</td>
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<td>B (less Shut-off Valves)</td>
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<td>404</td>
<td>15.9</td>
<td>404</td>
<td>19.6</td>
<td>498</td>
<td>24.5</td>
<td>622</td>
<td>30</td>
<td>762</td>
<td>36</td>
<td>914</td>
<td>37</td>
<td>940</td>
</tr>
<tr>
<td>C (Butterfly Valves)</td>
<td>8</td>
<td>203</td>
<td>8.4</td>
<td>213</td>
<td>9.1</td>
<td>231</td>
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<td>257</td>
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<td>305</td>
<td>13.4</td>
<td>340</td>
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<tr>
<td>C (NRS/PI Gate Valves)</td>
<td>11.8</td>
<td>300</td>
<td>13</td>
<td>330</td>
<td>14</td>
<td>356</td>
<td>17.8</td>
<td>452</td>
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<td>C (OS&amp;Y Open)</td>
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<tr>
<td>D (Centerline to Bottom)</td>
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<td>3.9</td>
<td>99</td>
<td>4.6</td>
<td>117</td>
<td>6</td>
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<td>E (Width Max)</td>
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<td>432</td>
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<td>432</td>
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<td>673</td>
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<tr>
<td>F (Check Removal Clearance)</td>
<td>4.8</td>
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<td>Test Cocks (NPT)</td>
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**WEIGHTS**

<table>
<thead>
<tr>
<th>WEIGHTS</th>
<th>LB.</th>
<th>KG</th>
<th>LB.</th>
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<th>LB.</th>
<th>KG</th>
<th>LB.</th>
<th>KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Wt. (w/ Butterfly Valves)</td>
<td>64</td>
<td>29</td>
<td>68</td>
<td>31</td>
<td>98</td>
<td>45</td>
<td>158</td>
<td>72</td>
<td>354</td>
<td>161</td>
<td>940</td>
<td>427</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Ship Wt. (w/ Butterfly Valves)</td>
<td>88</td>
<td>40</td>
<td>92</td>
<td>42</td>
<td>183</td>
<td>83</td>
<td>248</td>
<td>113</td>
<td>502</td>
<td>228</td>
<td>1130</td>
<td>514</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Net Wt. (w/ Post Indicator Valves)</td>
<td>94</td>
<td>43</td>
<td>90</td>
<td>50</td>
<td>149</td>
<td>68</td>
<td>273</td>
<td>124</td>
<td>540</td>
<td>245</td>
<td>1229</td>
<td>559</td>
<td>1685</td>
<td>766</td>
</tr>
<tr>
<td>Ship Wt. (w/ Post Indicator Valves)</td>
<td>178</td>
<td>81</td>
<td>183</td>
<td>88</td>
<td>234</td>
<td>106</td>
<td>361</td>
<td>164</td>
<td>688</td>
<td>313</td>
<td>1419</td>
<td>645</td>
<td>1875</td>
<td>852</td>
</tr>
<tr>
<td>Net Wt. (w/ OS&amp;Y Valves)</td>
<td>109</td>
<td>50</td>
<td>125</td>
<td>57</td>
<td>180</td>
<td>82</td>
<td>333</td>
<td>151</td>
<td>615</td>
<td>280</td>
<td>1343</td>
<td>610</td>
<td>1800</td>
<td>818</td>
</tr>
<tr>
<td>Ship Wt. (w/ OS&amp;Y Valves)</td>
<td>193</td>
<td>88</td>
<td>209</td>
<td>95</td>
<td>265</td>
<td>120</td>
<td>421</td>
<td>191</td>
<td>763</td>
<td>347</td>
<td>1533</td>
<td>697</td>
<td>1990</td>
<td>905</td>
</tr>
</tbody>
</table>

Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances (± 1/8" (3 mm) per joint). Internal body connections are grooved on 2-1/2" to 10" sizes. Internal body connections are flanged on 12" size.
WARRANTY &
TERMS AND CONDITIONS OF SALE

Conbraco Industries, Inc. warrants, to its initial purchaser only, that its products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period of FIVE years from the date of delivery to you, our initial purchaser. This warranty applies to Apollo brand product with “Made in the USA” markings only.

Should any failure to conform to this warranty appear within FIVE years after the date of the initial delivery to our initial purchaser, Conbraco will, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with Conbraco's recommendations and standard industry practice, correct such defects by suitable repair or replacement at Conbraco's own expense.

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TERMS AND CONDITIONS OF SALE

- Payment: 2% 10th prox. Net 30 days.
- All prices F.O.B. shipping point with freight allowed on shipments of 750 pounds and/or $5,000 net minimum to all shipping points within the United States excluding Alaska and Hawaii. No freight allowed on Air Freight or Parcel Post shipments. Claims for shortages must be made within 10 days of receipt of material. Our responsibility ends when a receipt is furnished us by the carrier.
- No Invoice Rendered For Less Than $50.00.
- No freight will be allowed on Air Freight, Air Express, Parcel Post or U.P.S. shipments.
- All Conbraco products may be combined to make sufficient weight for full freight allowance.
- Phone order quoted prices are subject to correction. Prices and designs are subject to change without notice.
- Orders for material or special design or specification are made to customer’s order and are not subject to cancellation or return.
- All goods returned to us will not be accepted unless a full explanation has been made and our written authorized permission obtained in advance. All goods returned – if accepted – will be credited at invoice price, less 30% for service and rehandling charges, plus shipping expenses.
- We reserve the right to adjust orders to box quantities.