### Specification: (example)
- **Battery** (4 ‘C’ cell) or **Hardwire** (24 VAC) infrared electronic activated concealed flushvalve system
- Stainless steel cover with integral sensor utilizing **H₂OPTICS™** technology and S/S vandal resistant mounting screws
- Metal mounting box or frame, power function light, field selectable sensor range
- Preset blocking time, built-in activation delay
- Electronic manual override
- Solenoid operation valve
  - **Battery** or **Hardwire**
  - (add control/sensor box required)

### Fixtures and Control/Sensor Box

<table>
<thead>
<tr>
<th>FIXTURE TYPE</th>
<th>NOT APPLICABLE</th>
<th>CONTROL/SENSOR BOX</th>
</tr>
</thead>
<tbody>
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<tr>
<td>9</td>
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</tbody>
</table>

(1) When used for TOP Inlet Urinal Fixture - Exposed Tubing, Flanges, Elbow, etc. **SUPPLIED** by Others

Refer to www.specselect.com for individual models.

Note: Use this page front and back, with specification drawing page referenced above, as product submittal sheets.

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation.

Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
Electronically activated flushvalve
1600T and 1601T Series

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation.

Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.

Approvals:
- CSA certified
- ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. handle operating force.
- IAPMO listed
- Complies to ASSE Standard 1037 (Contact Delta Representative for State and/or Local Approvals.)

W.C. Operation:
- 8 second blocking time.
- 4 second activation delay.
- Adjustable flush volume using adjustment screw on flushvalve.
- Selectable sensing distance: 24 to 56” in 8” increments
  Factory set to 40”
- 24 hour courtesy flush factory set to off.

Urinal Operation:
- 8 second blocking time.
- 0 second activation delay.
- Adjustable flush volume using adjustment screw on flushvalve.
- Selectable sensing distance: 12 to 28” in 4” increments
  Factory set to 20”
- Adjustable 24 hour courtesy flush factory set to on.

1600T ELECTRONIC FLUSH VALVE OPTIONAL ACCESSORIES:

- **TRANSFORMERS:**
  - 060704A 110 to 24VAC Class II 20VA (For 5 Sensor Modules)
  - 060771A 110 to 24VAC Class II 40VA (Up to 10 Sensor Modules)
  - 060772A 110 to 24VAC Class II 100VA (Up to 25 Sensor Modules)

- **CORDS:**
  - 060680A 4’ Solenoid Extension Wire

- **HARDWIRE CONVERTER:**
  - 060683A 24VAC to 6VDC Converter (Supplied standard on Hardwire models)

Note: Measurements may vary ± 6mm (0.25”)

Refer to www.specselect.com for individual models.
Product supplied as shown by solid lines. All items shown by dotted lines supplied by others.
Electronic Washdown Urinal
1600T and 1601T Series

Specification: (example)
- Battery (4 ‘C’ cell) or Hardwire (24 VAC) infrared electronic urinal flushing system
- Stainless steel cover with integral sensor utilizing H₂OPTICS™ technology
- Power function light, field selectable sensor range
- Electronic manual override
- Preset blocking time
- Slow closing solenoid valve, integral stop

with... (add control/sensor box required)
with... (transformer - specify separately - See Back Page)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PRODUCT NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic Washdown Urinal</td>
<td>Hardwire 1600T</td>
</tr>
<tr>
<td>Electronic Washdown Urinal</td>
<td>Battery 1601T</td>
</tr>
</tbody>
</table>

Note: Rough-in and Trim Ordered Separately

Engineer/Architect Approval
Model Specified: Approval: Date:

DESCRIPTION PRODUCT NO.  NOT APPLICABLE
0 1 2 3 4 5 6 7 8 9

CONTROL/SENSOR BOX

1. For RECESSED MOUNTING - BACK INLET URINAL Components ASSEMBLED in 8” Box, w/Integral Sensor in S/S Cover, S/S Outlet Hose.

See Specification Drawing #18

2. For RECESSED MOUNTING - TOP INLET URINAL Components ASSEMBLED in 8” Box, w/Integral Sensor in S/S Cover.

See Specification Drawing #18

3. Components only UNASSEMBLED (1)

4. 4” Box w/Integral Sensor in S/S Cover

See Specifications Drawing #19 (2)

(1) When used for TOP Inlet Urinal Fixture - Exposed Tubing, Flanges, Elbow, etc. SUPPLIED by Others. (2) 1600T9006 & 1601T9006 ordered as complete product only. No RI or TR available. Refer to www.specselect.com for individual models.

Teck®
DELTA®
Commercial

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
**Approval:**
- CSA certified
- ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. handle operating force.
- IAPMO listed

(Contact Delta Representative for State and/or Local Approvals.)

**Operation:**
- 8 second blocking time.
- Activation delay:
  - 0 seconds on urinal applications
- Adjustable flush time 4 to 9 seconds
  - Factory set at 4 seconds
- Selectable sensing distance:
  - 12 to 28" in 4" increments.
  - Factory set to 20"
- Adjustable 24 hour courtesy flush
  - Factory set to on.

**Flowrate vs Pressure**

**1600T Electronic Flush Valve Optional Accessories:**

- **Transformers:**
  - 060704A 110 to 240V Class II 20VA (For 5 Sensor Modules)
  - 060711A 110 to 240V Class II 40VA (Up to 10 Sensor Modules)
  - 060752A 110 to 240V Class II 100VA (Up to 25 Sensor Modules)

- **Cords:**
  - 060680A 4’ Solenoid Extension Wire

- **HARDWIRE CONVERTER:**
  - 060683A 24VAC to 6VDC Converter (Supplied standard on Hardwire models)

Note: Measurements may vary ± 6mm (0.25")

Refer to www.specselect.com for individual models.

Product supplied as shown by solid lines. All items shown by dotted lines supplied by others.

DSP–1600T9
### 1600T and 1601T SERIES

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>VALVE TYPE</th>
<th>MOUNT TYPE</th>
<th>COVER</th>
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</thead>
<tbody>
<tr>
<td>1600T 6</td>
<td>Flushvalve w/Access Panel Box</td>
<td>Recessed Mount</td>
<td>356 x 508mm (14 x 20&quot;) Stainless Steel</td>
</tr>
<tr>
<td>1600T 6</td>
<td>Flushvalve w/Access Panel Box</td>
<td>Recessed Mount</td>
<td>356mm (14&quot;) Stainless Steel</td>
</tr>
<tr>
<td>1600T 6</td>
<td>Flushvalve less Access Panel Box</td>
<td>Recessed Mount</td>
<td>124mm (4-7/8&quot;) Stainless Steel</td>
</tr>
<tr>
<td>1601T 6</td>
<td>Flushvalve w/Access Panel Box</td>
<td>Recessed Mount</td>
<td>356 x 508mm (14 x 20&quot;) Stainless Steel</td>
</tr>
<tr>
<td>1601T 6</td>
<td>Flushvalve w/Access Panel Box</td>
<td>Recessed Mount</td>
<td>356mm (14&quot;) Stainless Steel</td>
</tr>
<tr>
<td>1601T 6</td>
<td>Flushvalve less Access Panel Box</td>
<td>Recessed Mount</td>
<td>124mm (4-7/8&quot;) Stainless Steel</td>
</tr>
</tbody>
</table>

*This product is supplied with the Small Sensor Box. Note: Rough-in and Trim Ordered Separately

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**356MM (14") Square S/S Cover and 305mm (12") Square Frame. SUPPLIED ONLY ON 1600T6_03 and 1601T6_03**

**356 x 508MM (14 x 20") S/S Cover and 305 x 457mm (12 x 18") Frame. SUPPLIED ONLY ON 1600T6_02 and 1601T6_02**

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Note: Measurements may vary ± 6mm (0.25")

Delta reserves the right [1] to make changes in specifications and materials, and [2] to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
### 1600T and 1601T SERIES

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>VALVE TYPE</th>
<th>MOUNT TYPE</th>
<th>COVER</th>
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</thead>
<tbody>
<tr>
<td>1600T 9 0 0 1</td>
<td>Back Inlet Urinal</td>
<td>Recessed Mount</td>
<td>254mm (10&quot;) Stainless Steel</td>
</tr>
<tr>
<td>1600T 9 0 0 3</td>
<td>Top Inlet Urinal</td>
<td>Recessed Mount</td>
<td>254mm (10&quot;) Stainless Steel</td>
</tr>
<tr>
<td>1601T 9 0 0 1</td>
<td>Back Inlet Urinal</td>
<td>Recessed Mount</td>
<td>254mm (10&quot;) Stainless Steel</td>
</tr>
<tr>
<td>1601T 9 0 0 3</td>
<td>Top Inlet Urinal</td>
<td>Recessed Mount</td>
<td>254mm (10&quot;) Stainless Steel</td>
</tr>
</tbody>
</table>

*Note: Rough-in and Trim Ordered Separately*

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### 1600T9001 and 1601T9001 SERIES

- **Inlet 1/2” copper**
- **Slow closing solenoid valve**
- **Aluminum control box**
- **Stainless steel braided outlet hose**
- **Spacer** (Replace with SOLENOID valve after system is flushed.)

### 1600T9003 and 1601T9003 SERIES

- **Water flow**
- **Cover assembly**
- **Slow closing solenoid valve** (INSTALL: replacing spacer after system is flushed.)
- **NOTE**: flow direction ARROW on bottom

*Note: Top inlet urinal connections not supplied*

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Dimensions are for reference only. See current full-line price book or [www.specselect.com](http://www.specselect.com) for finish options and product availability.

---

**Note**: Measurements may vary ± 6mm (0.25")
COMPONENTS ONLY UNASSEMBLED

1600T and 1601T SERIES

<table>
<thead>
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<th>PRODUCT NO.</th>
<th>FAUCET TYPE</th>
<th>COVER</th>
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<tbody>
<tr>
<td>1600T</td>
<td>9 0 0 6 Urinal Valve 124mm (4-7/8&quot;) Stainless Steel</td>
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<tr>
<td>1601T</td>
<td>9 0 0 6 Urinal Valve 124mm (4-7/8&quot;) Stainless Steel</td>
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</table>

Note: Ordered as complete product only. No RI or TR available.

1600T9006 and 1601T9006 SERIES

Small Sensor Box

- Dimensions for reference only. See current full-line price book or www.specselect.com for finish options and product availability.

Note: Measurements may vary ± 6mm (0.25")
Exposed TECK® Flush Valve

Specification: (example)
(FOR 1-1/2" TOP INLET CLOSET FIXTURE)
- Quiet action, TECK® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- External water conserving flush volume adjustment,
  (except -6 and -56 models) factory set at 60 PSI to 6 litre (1.6 US gal.)
- Vandal resistant cover screw
- Metal "non hold open" handle
- 1" FIP/copper sweat inlet adaptor angle stop check with protecting cap
- Adjustable 121mm (43/4") plus or minus 11mm (7/16") inlet/valve
  outlet centers
- Vacuum breaker
- Cover tube and wall flange, spud flange and concealed spud nut

WITH 292mm (11-1/2") LENGTH:
- 81T201
  - As above
- 81T201-1
  - Same as 81T201, but with trap seal primer tee
- 81T201-5
  - Same as 81T201, but with center cover bumper
- 81T201-6
  - Same as 81T201, but Not Field Adjustable
- 81T201-56
  - Same as 81T201-5, but Not Field Adjustable

With 610mm (24") LENGTH
- 81T221
  - As above
- 81T221-1
  - Same as 81T221, but with trap seal primer tee
- 81T221-6
  - Same as 81T221, but Not Field Adjustable

Approvals:
- CSA certified
- Complies to ASSE 1037
- ADA compliant and meets
  Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO Listed
  (Contact Delta Representative for State and/or Local Approvals.)

Note: Measurements may vary ± 6mm (0.25")

Refer to www.specselect.com for individual models.
Exposed TECK® Flush Valves for Sloan®/Zurn® Stops

Specification: (example)
FOR 1-1/2'' TOP INLET CLOSET FIXTURE
LESS STOP, WITH MODIFIED TAIL TO FIT SLOAN®/ZURN® STOP
- Quiet action, TECK® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- External water conserving flush volume adjustment, factory set at 60 PSI to 6 litre [1.6 US gal.] (except -6 model)
- Vandal resistant cover screw
- Metal "non hold open" handle
- Adjustable 114mm (4.5'') to 131mm (5.18'') inlet/valve outlet centers
- Vacuum breaker
- Spud flange and concealed spud nut

WITH 292mm (11-1/2'') LENGTH:
- 81T201-30
  As above
- 81T201-30-6
  Same as 81T201-30, but Not Field Adjustable

Note: Measurements may vary ± 6mm (0.25'')

Approvals:
- CSA certified
- Complies to ASSE 1037
- ADA compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO Listed
  (Contact Delta Representative for State and/or Local Approvals.)

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Items shown outlined by dotted lines supplied by others.

Refer to www.specselect.com for individual models.

Note: Use this page as a product submittal sheet.

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
Exposed TECK® Flush Valves

Specification: (example)
(For Top Inlet Urinal Fixture)
- Quiet action, TECK® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- External water conserving flush volume adjustment, factory set at 60 PSI to 2.7 litre (.70 US gal.)
- Vandal resistant cover screw
- Metal "non hold open" handle
- 1" FIP/3/4" copper sweat inlet adaptor angle check stop with protecting cap
- Adjustable 121mm (4-3/4'') plus or minus 11mm (7/16'') inlet/valve outlet centers
- Vacuum breaker
- Cover tube and wall flange, spud flange and spud nut

FOR 3/4" TOP INLET URINAL FIXTURE
- 81T231
  As above
- 81T231-1
  Same as 81T231 but with trap seal primer tee

FOR 1-1/4" TOP INLET URINAL FIXTURE
(with 1" copper inlet adaptor)
- 81T291
  As above
- 81T291-1
  Same as 81T291 but with trap seal primer tee

OPTIONS AVAILABLE
(for Field Conversion):
- 060253A
  3/4" x 19-1/2" VB Tube (for 81T231)

Approvals:
- CSA certified
- Complies to ASSE 1037
- ADA compliant and meets
  Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO Listed
  (Contact Delta Representative for State and/or Local Approvals.)

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.
Exposed Teck® Flush Valves for Sloan®/Zurn® Stops

Specification: (example)
(FOR TOP INLET URINAL FIXTURE)
LESS STOP, WITH MODIFIED TAIL TO FIT SLOAN®/ZURN® STOP

- Quiet action, TECK® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- **External water conserving flush volume adjustment,**
  factory set at 60 PSI to 2.7 litre (.70 US gal.)
- Vandal resistant cover screw
- Metal “non hold open” handle
- Adjustable 114mm (4.5'') to 131mm (5.18'') inlet/valve outlet centers
- Vacuum breaker
- Spud flange and spud nut

FOR 3/4" TOP INLET URINAL FIXTURE

- 81T231-30
  As above

OPTIONS AVAILABLE
(for Field Conversion):

- 060253A
  3/4" x 19-1/2" VB Tube (for 81T231 Series)

**Approvals:**

- CSA certified
- Complies to ASSE 1037
- ADA compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO Listed
  [Contact Delta Representative for State and/or Local Approvals.]

**Engineer/Architect Approval**

<table>
<thead>
<tr>
<th>Model Specified:</th>
<th>Date:</th>
</tr>
</thead>
</table>

Note: Measurements may vary ± 6mm (0.25'')

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Refer to www.specselect.com for individual models. Note: Use this page as a product submittal sheet.

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
Exposed TECK® Flush Valve

Specification: (example)
(FOR 1-1/2" TOP INLET CLOSET FIXTURE)

- Quiet action, TECK® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- **External water conserving flush volume adjustment**, (except -6 models) factory set at 60 PSI to 6 litre (1.6 US gal.)
- Vandal resistant cover screw
- Metal “non hold open” handle
- **1" FIP/copper sweat inlet adaptor** angle check stop with protecting cap
- Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/valve outlet centers
- Vacuum breaker
- Cover tube and wall flange, spud flange and concealed spud nut

WITH 610mm (24") “A” LENGTH AND 38mm (1-1/2" offset)

- [ ] 81T261
  - As above
- [ ] 81T261-6
  - Same as 81T261, but **Not Field Adjustable**

**Approvals:**
- CSA certified
- Complies to ASSE 1037
- ADA compliant and meets
  Handicapped Accessibility, Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO Listed
  (Contact Delta Representative for State and/or Local Approvals.)

**Engineer/Architect Approval**

<table>
<thead>
<tr>
<th>Model Specified:</th>
<th>Approval:</th>
<th>Date:</th>
</tr>
</thead>
</table>

Note: Measurements may vary ± 6mm (0.25")

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Refer to www.specselect.com for individual models.

Note: Use this page as a product submittal sheet.
Exposed TECK® Flush Valve

Specification: (example)
(FOR 1-1/2" BACK INLET CLOSET FIXTURE)
- Quiet action, TECK® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- **External water conserving flush volume adjustment,**
  (except -6 models) factory set at 60 PSI to 6 litre (1.6 US gal.)
- Vandal resistant cover screw
- Metal “non hold open” handle
- 1" FIP/copper sweat inlet adaptor angle check stop with
  protecting cap
- Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/valve
  outlet centers
- Vacuum breaker
- Cover tube and wall flange, spud flange and concealed spud nut

- **81T271**
  As above
- **81T271-1**
  Same as 81T271 but with trap seal primer tee
- **81T271-5**
  Same as 81T271 but with center cover bumper
- **81T271-6**
  Same as 81T271, but **Not Field Adjustable**

**Approvals:**
- CSA certified
- Complies to ASSE 1037
- ADA compliant and meets
  Handicapped Accessibility Standard ASME A117.1 of less
  than 5 lbs. operating force.
- IAPMO Listed
  (Contact Delta Representative for State and/or Local Approvals.)

**Notes:**
- The recommended Flush Valve operating
  pressure range is between 35 and 65 psi.
  See page 7.C.18 High Water Pressure note for more details.
- Measurements may vary ± 6mm (0.25")

Refer to www.specselect.com for individual models.

Note: Use this page as a product submittal sheet.
MORE STANDARD FEATURES

• DIAPHRAGM Type
• Choramine Resistant Diaphragm
• Forged Brass Diaphragm Retainer
• QUIET Action
• CONSTANT Peak Flow
• Marine/Ship Use
• ADA Compliant Lever Handle

VANDAL RESISTANT Handle Actuators

Choice of 3 Handle Actuators

"NON HOLD OPEN" Handle (1)

INSTALLATION FLEXIBILITY:
Handle Control can be installed up to 6m (20') away from the valve body.

ADJUSTABLE Tail

"PRESSURE LOSS Check" Stop-1'' FIP Inlet (1)

1'' Copper Sweat ADAPTOR

EXTERNAL VOLUME
ADJUSTMENT (1)
(except - 6 models)

RENEWABLE
SEAT

HIGHEST QUALITY Vacuum breaker.

WATER CONSERVATION FEATURES

83T141

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
The Teck® Concealed Flush Valve is characterized for its FLEXIBILITY.

- It can be installed for back access or with a stainless steel panel for front access, reducing space for piping, etc.

- Flush valves are supplied to fit any wall from zero to 343mm (13-1/2") thick. (Note: Wall thickness does NOT have to be specified.)

- The flush valve could also be installed inside a 6" wall cavity if required.

- Each of the 3 handle actuator choices allows positioning of the Handle Control unit for a variety of desired positions. The handle can be positioned up to 6m (20') from the valve.

- Handle control tubes are flexible, color coded, copper tubes for quick, easy and proper installation.

- The handle wall flange is supplied with a stainless steel anti-rotation locking pin for vandal resistance

- A heavy gauge, plated metal wall bracket and two locknuts are supplied to insure a rigid handle control installation.

STANDARD TECK® features:

WATER CONSERVATION FEATURES:
- External Volume Adjustment* • “Pressure Loss Check” Stop
  *Except - 6 Models

“Non-Hold Open” Actuators (ALSO Vandal Resistant)

ADDITIONAL FEATURES:
- Adjustable Tail
- CSA Certified
- Constant Peak Flow
- Copper Sweat Inlet Adaptor - 1" (3/4" on Urinal Valves)
- Vandal Resistant
- Diaphragm Type Valve
- Chloramine Resistant Diaphragm
- Forged Brass Diaphragm Retainer

See page 7.C.18 for explanation of how the TECK® flush valve operates.

ACCESS PANEL

Specifications: (example)

- 9T4000 Access Panel
  - 305mm (12") square frame with 365mm (14") square stainless steel cover and vandal resistant stainless steel screws.

Note: Measurements may vary ± 6mm (0.25")

3 HANDLE ACTUATORS AVAILABLE
- 16mm (5/8") DIA. PUSH BUTTON
- OSCILLATING Lever Handle
- 35mm (1-3/8") Dia. PUSH BUTTON

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Dimensions are for reference only. See current full-line price book or www.specscollect.com for finish options and product availability.
Concealed TECK® Flush Valves

Specification: (example)
(FOR 1-1/2" WALL HUNG BACK INLET CLOSET FIXTURE)
- Quiet action, TECK® concealed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- External water conserving flush volume adjustment, (except -6 models) factory set at 60 PSI to 6 litre (1.6 US gal.)
- "Non hold open" metal handle actuator
- Vandal resistant handle control can easily be located and installed anywhere within 6m (20') of flush valve
- Standard flush valve will install on all walls zero to 343mm (13-1/2") thick
- 1" FIP/copper sweat inlet adaptor
- Wheel handle angle check stop
- Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/valve outlet centers
- Vacuum breaker

- 83T140
  - with 16mm (5/8") dia. push button
- 83T141
  - with oscillating handle
- 83T143
  - with 35mm (1-3/8") dia. push button

(FOR BACK INLET PRISON FIXTURE)
- 83T000
  - Same as 83T140 with 16mm (5/8") dia. push button BUT with 1-1/2" MIP on outlet tube for Prison Fixture installation

OPTIONS: Add dash number to end product required above.)
-1 Trap seal primer tee
-6 Factory set 6 litre (1.6 US gal.) flush
-Not Field Adjustable

Approvals:
- CSA certified
- Complies to ASSE 1037
- Oscillating Lever Handle ADA compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO Listed
  (Contact Delta Representative for State and/or Local Approvals.)

Engineer/Architect Approval
Model Specified: 
Approval: 
Date: 

Note: Measurements may vary ± 6mm (0.25")

Reference: www.specselect.com for individual models.

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.

Note: Use this page as a product submittal sheet.

Page 7.C.9
Specification: (example)
(FOR 1-1/2'' FREE-STANDING, BACK INLET CLOSET FIXTURE)
• Quiet action, TECK® concealed diaphragm flush valve
• Chloramine resistant diaphragm
• Forged brass diaphragm retainer
• Renewable seat
• External water conserving flush volume adjustment, (except -6 models) factory set at 60 PSi to 6 litre (1.6 US gal.)
• Metal "non hold open" handle actuator
• Vandal resistant handle control can easily be located and installed anywhere within 6m (20') of flush valve
• Standard flush valve will install on all walls zero to 343mm (13-1/2'') thick
• 1'' FIP/copper sweat inlet adaptor  wheel handle angle check stop
• Adjustable 121mm (4-3/4'') plus or minus 11mm (7/16'') inlet/valve outlet centers
• Vacuum breaker
• Wall and spud flanges, concealed sput nut

83T240
with 16mm (5/8'') dia. push button
83T241
with oscillating handle
83T243
with 35mm (1-3/8'') dia. push button

OPTIONS: (Add dash number to end product required above.)
-1 Trap seal primer tee.
-6 Factory set 6 litre (1.6 US gal.) flush Not Field Adjustable

Approvals:
• CSA certified
• Complies to ASSE 1037
• Oscillating Lever Handle ADA compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
• IAPMO Listed
(Contact Delta Representative for State and/or Local Approvals.)

Engineer/Architect Approval
Model Specified:                                  Date:
Approval:                                       

Note: Measurements may vary ± 6mm (0.25'')

Note: Use this page as a product submittal sheet.

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation.
Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
Concealed TECK® Flush Valve

Specification: (example)
(FOR 1-1/2” TOP INLET CLOSET FIXTURE)
- Quiet action, TECK® concealed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- External water conserving flush volume adjustment, (except -6 models) factory set at 60 PSI to 6 litre (1.6 US gal.)
- Metal “non hold open” handle actuator
- Vandal resistant handle control can easily be located and installed anywhere within 6m (20’) of flush valve
- Standard flush valve will install on all walls zero to 343mm (13-1/2”) thick
- 1” FIP/copper sweat inlet adaptor wheel handle angle check stop
- Adjustable 121mm (4-3/4”) plus or minus 11mm (7/16”) inlet/valve outlet centers
- Vacuum breaker
- Wall and spud flanges, concealed sput nut, elbow and tubing

.optional

Engineer/Architect Approval
Model Specified:
Approval: Date:
Note: Measurements may vary ± 6mm (0.25”)

Approvals:
- CSA certified
- Complies to ASSE 1037
- Oscillating Lever Handle ADA compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO Listed
(Contact Delta Representative for State and/or Local Approvals.)

OPTIONS: (Add dash number to end product required above.)
-1 Trap seal primer tee.
-6 Factory set 6 litre (1.6 US gal.) flush

Not Field Adjustable

83T341 with oscillating handle
83T343 with 35mm (1-3/8”) dia. push button

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Refer to www.specselect.com for individual models.

Note: Use this page as a product submittal sheet.
Specification: (example)
(FOR WALL HUNG, BACK INLET URINAL FIXTURE)
- Quiet action, TECK® concealed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- External water conserving flush volume adjustment, factory set at 60 PSI to 2.7 litre (.70 US gal.)
- Metal "non hold open" handle actuator
- Vandal resistant handle control can easily be located and installed anywhere within 6m (20') of flush valve
- Standard flush valve will install on all walls zero to 343mm (13-1/2") thick
- 1" FIP/copper sweat inlet adaptor wheel handle angle check stop
- Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/valve outlet centers
- Vacuum breaker

FOR 3/4" WALL HUNG, BACK INLET URINAL FIXTURE: (with 3/4" copper sweat adaptor)
- 83T430
  - with 16mm (5/8") dia. push button
- 83T431
  - with oscillating handle

FOR 1-1/4" WALL HUNG, BACK INLET URINAL FIXTURE: (with 1" copper sweat adaptor)
- 83T490
  - with 16mm (5/8") dia. push button
- 83T491
  - with oscillating handle

OPTIONS: [Add dash number to end product required above.]
- T Trap seal primer tee

Approvals:
- CSA certified
- Complies to ASSE 1037
- Oscillating Lever Handle ADA compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO Listed
  (Contact Delta Representative for State and/or Local Approvals.)

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi.
See page 7.C.18 High Water Pressure note for more details.
**Metering Urinal Valve for Washdown Urinals**

**SPECIFICATION: (example)**
- **HEAVY-DUTY**, back inlet supply
- **CAST BRASS** valve for 3/4” IP spud urinal
- Polished chrome plated finish
- Delta® metering slow close cartridge
- Chrome plated union inlet stop
- Brass oscillating lever handle, coupling nuts, inlet cover tube
- Set screw wall flange, spud flange, outlet tube
- 1/2” universal FIP/copper sweat inlet
  For Washdown Urinals

- **86T505**

**SPECIFICATION: (example)**
- **HEAVY-DUTY**, back inlet supply
- **CAST BRASS** valve for 3/4” IP spud urinal
- Polished chrome plated finish
- Delta® metering slow close cartridge
- Chrome plated brass coupling nuts, inlet cover tube
- Wall flange, spud flange, outlet tube
- 1/2” universal FIP/copper sweat inlet
  For Washdown Urinals

- **86T500** with vandal resistant brass push button
- **86T502** with brass oscillating lever handle

**SPECIFICATION: (example)**
- **HEAVY-DUTY**, top inlet supply
- **CAST BRASS** valve for 3/4” IP spud urinal
- Polished chrome plated finish
- Delta® metering slow close cartridge
- Chrome plated brass coupling nuts, spud flange, outlet tube
- 1/2” universal FIP/copper sweat inlet
  For Washdown Urinals

- **86T501** with vandal resistant brass push button
- **86T503** with brass oscillating lever handle

**SPECIFICATION: (example)**
Vacuum breaker assembly for above urinal valves
- **86T610**

---

**Engineer/Architect Approval**

Model Specified: 

Approval:  
Date:  

Refer to www.specselect.com for individual models.

Note: Use this page front and back as a product submittal sheet.

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
**Approvals:**
- CSA certified
- Lever Handle ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO listed

(Contact Delta Representative for State and/or Local Approvals.)

**Extensions Available for Inlet Centers and for Outlet Tube Heights**

**FLOWRATE vs PRESSURE**

<table>
<thead>
<tr>
<th>Flowrate (l/min)</th>
<th>Flowrate (USGPM)</th>
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</tr>
<tr>
<td>100</td>
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</table>

**Line Pressure (psig):**

- INLETS - 1/2" FIP/Copper
- Note: Measurements may vary ± 6mm (0.25")

Refer to www.specselect.com for individual models.
Electronic Exposed TECK® Flush Valves

- **81T201BT**
  - Exposed Battery Operated
  - 1-1/2" Top Inlet Closet Fixture
  - Polished chrome plated vandal resistant metal cover with top mounted sensor operated electronics
  - Right or left-hand supply installation
  - ADA compliant, automatic operation battery powered infrared sensor
  - Scratch resistant lens window
  - Four (4) size AA alkaline batteries factory installed with valve in sleep mode for easy installation
  - Low battery flashing light (5000 flushes remaining)
  - Infrared sensor range adjustment of 610mm-1067mm (24" - 42"), factory set at 36" (±2"
  - Optional 24 hour automatic flush factory set to off, 3 second flush delay
  - Setup sensor range adjustment indicator light, solid state electronics
  - 6 VDC input, 5 second arming delay, 8" upward beam
  - Electronic operated non-hold-open* metal manual override button with 5 second lockout
  - Quiet action, Teck® exposed diaphragm flush valve
  - Chloramine resistant diaphragm
  - Forged brass diaphragm retainer
  - Renewable seat
  - Polished chrome plated finish
  - External water conserving flush adjustment, factory set at 60 PSI to 6 litre (1.6 US gal.) (except -6 model)
  - 1" FIP/Copper sweat inlet adaptor, angle check stop with protecting cap
  - Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/valve outlet centers
  - Vacuum breaker
  - Cover tube, stainless steel wall flange, spud flange, concealed spud nut, and 292mm (11-1/2") outlet tube.

- **81T201-6BT**
  - Same as 81T201BT, but Not Field Adjustable

- **81T221BT**
  - Same as 81T201BT, but with 610 mm (24") outlet tube

- **81T201-20BT**
  - Same as 81T201BT, but LESS stop, cover tube and wall flange.

- **81T201-20-13BT**
  - Same as 81T201-20BT, but external water conserving flush adjustment factory set at 60 PSI to 13 litre (3.4 US gal.)

- **81T201-20-6BT**
  - Same as 81T201-6BT, but LESS stop, cover tube and wall flange, Not Field Adjustable.

Note: Measurements may vary ± 6mm (0.25"

Engineer/Architect Approval
Model Specified: 
Approval: Date:

Electronic Exposed TECK® II Flush Valve Retrofit Kits

- **81T201-20BT**
  - Same as 81T201BT, but LESS stop, cover tube and wall flange.

- **81T201-20-13BT**
  - Same as 81T201-20BT, but external water conserving flush adjustment factory set at 60 PSI to 13 litre (3.4 US gal.)

- **81T201-20-6BT**
  - Same as 81T201-6BT, but LESS stop, cover tube and wall flange, Not Field Adjustable.

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Refer to www.specselect.com for individual models.

Note: Use this page as a product submittal sheet.
81T201-30BT
- Exposed Battery Operated
1-1/2" Top Inlet Closet Fixture
LESS STOP, WITH MODIFIED TAIL TO FIT SLOAN®/ZURN® STOP

- Polished chrome plated vandal resistant metal cover with top mounted sensor operated electronics
- Right or left-hand supply installation
- ADA compliant, automatic operation battery powered infrared sensor
- Scratch resistant lens window
- Four (4) size AA alkaline batteries factory installed with valve in sleep mode for easy installation
- Low battery flashing light (5000 flushes remaining)
- Infrared sensor range adjustment of 610mm-1067mm (24" - 42"), factory set at 36" (+2")
- Optional 24 hour automatic flush factory set to off, 3 second flush delay
- Setup sensor range adjustment indicator light, solid state electronics
- 6 VDC input, 5 second arming delay, 8° upward beam
- Electronic operated non-hold-open metal manual override button with 5 second lockout
- Quiet action, Teck® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- External water conserving flush adjustment, factory set at 60 PSI to 6 litre (1.6 US gal.) (except -6 model)
- Adjustable 114mm to 131mm (4.5" to 5.18") inlet/valve outlet centers
- Vacuum breaker
- Spud flange, concealed spud nut, and 292mm (11-1/2") outlet tube.

81T201-30-13BT
Same as 81T201-30BT, but external water conserving flush adjustment factory set at 60 PSI to 13 litre (3.4 US gal.)

81T201-30-6BT
Same as 81T201-30BT, but Not Field Adjustable

Note: Measurements may vary ± 6mm (0.25")

Refer to www.specselect.com for individual models.

Reached the end of the text. No further information available.
Electronic Exposed TECK® Flush Valves

- **81T201HW**
  - Exposed Hard Wire Operated
  - 1-1/2" Top Inlet Closet Fixture
  - Polished chrome plated vandal resistant metal cover with top mounted sensor operated electronics
  - Right or left-hand supply installation
  - ADA compliant, automatic operation hard wire powered infrared sensor
  - Scratch resistant lens window
  - Infrared sensor range adjustment of 610mm-1067mm (24" - 42"), factory set at 36" (±2")
  - Hardwire adaptor
  - Vandal resistant copper tube conduit
  - Optional 24 hour automatic flush factory set to off, 3 second flush delay
  - Setup sensor range adjustment indicator light, solid state electronics
  - 24 VAC input, 5 second arming delay, 8° upward beam
  - Electronic operated non-hold-open metal manual override button with 5 second lockout
  - (110 to 24 VAC Transformer not included. See selection below for additional part number.)
  - Quiet action, Teck® exposed diaphragm flush valve
  - Chloramine resistant diaphragm
  - Forged brass diaphragm retainer
  - Renewable seat
  - Polished chrome plated finish
  - External water conserving flush adjustment, factory set at 60 PSI to 6 litre [1.6 US gal.] (except -6 model)
  - 1" FIP/Copper sweat inlet adaptor, angle check stop with protecting cap
  - Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/valve outlet centers
  - Vacuum breaker
  - Cover tube, stainless steel wall flange, spud flange, concealed spud nut, and 292mm (11-1/2") outlet tube

- **81T201-6HW**
  - Same as 81T201HW, but **Not Field Adjustable**

- **81T221HW**
  - Same as 81T201HW, but with 610 mm (24") outlet tube.
  - (110 to 24 VAC Transformer not included. See selection below for additional part number.)

- **81T201-20HW**
  - Same as 81T201HW, but LESS stop, cover tube and wall flange.

- **81T201-20-13HW**
  - Same as 81T201-20HW, but **external water conserving flush adjustment** factory set at 60 PSI to 13 litre [3.4 US gal.]

- **81T201-20-6HW**
  - Same as 81T201-6HW, but LESS stop, cover tube and wall flange, **Not Field Adjustable**

### Transformers:

<table>
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<tr>
<th>TRANSFORMERS:</th>
<th>060704A</th>
<th>110 to 24VAC Class II 20VA (for up to 10 Electronic Valves)</th>
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<tbody>
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<td>060771A</td>
<td>110 to 24VAC Class II 40VA (up to 20 Electronic Valves)</td>
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<tr>
<td></td>
<td>060772A</td>
<td>110 to 24VAC Class II 100VA (up to 50 Electronic Valves)</td>
</tr>
</tbody>
</table>

Note: Measurements may vary ± 6mm (0.25"")

Refer to www.specselect.com for individual models.
8IT201-30HW
- Exposed Hard Wire Operated
1-1/2" Top Inlet Closet Fixture
LESS STOP, WITH MODIFIED TAIL TO FIT SLOAN®/ZURN® STOP

- Polished chrome plated vandal resistant metal cover with top mounted sensor operated electronics
- Right or left-hand supply installation
- ADA compliant, automatic operation hard wire powered infrared sensor
- Scratch resistant lens window
- Infrared sensor range adjustment of 610mm-1067mm (24" - 42"), factory set at 36" (±2"
- Hardwire adaptor
- Vandal resistant copper tube conduit
- Optional 24 hour automatic flush factory set to off, 3 second flush delay
- Set-up sensor range adjustment indicator light, solid state electronics
- 24 VAC input, 5 second arming delay, 8° upward beam
- Electronic operated non-hold-open metal manual override button with 5 second lockout
- (110 to 24 VAC Transformer not included. See selection below for additional part number.)
- Quiet action, Teck® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- External water conserving flush adjustment, factory set at 60 PSI to 6 litre (1.6 US gal.) (except -6 model)
- Adjustable 114mm to 131mm (4.5" to 5.18") inlet/valve outlet centers
- Vacuum breaker
- Spud flange, concealed spud nut, and 292mm (11-1/2") outlet tube

8IT201-30-13HW
Same as 8IT201-30HW, but external water conserving flush adjustment factory set at 60 PSI to 13 litre (3.4 US gal.)

8IT201-30-6HW
Same as 8IT201-30HW, but Not Field Adjustable
- (110 to 24 VAC Transformer not included. See selection below for additional part number.)

Note: Measurements may vary ± 6mm (0.25")

Transformer Options:

<table>
<thead>
<tr>
<th>TRANSFORMERS:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>060704A</td>
<td>110 to 24VAC Class II 20VA (for up to 10 Valves)</td>
</tr>
<tr>
<td>060771A</td>
<td>110 to 24VAC Class II 40VA (up to 20 Valves)</td>
</tr>
<tr>
<td>060772A</td>
<td>110 to 24VAC Class II 100VA (up to 50 Valves)</td>
</tr>
</tbody>
</table>

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Engineer/Architect Approval
Model Specified:
Approval: Date:

Items shown by dotted lines supplied by others.
Electronic Exposed TECK® Flush Valves

81T201-WMSBT
- Exposed Battery Operated
1-1/2'' Top Inlet Closet Fixture

- Polished chrome plated vandal resistant metal cover with 4'' wallmount sensor
- Right or left-hand supply installation
- ADA compliant, automatic operation battery powered H₂Optics™ technology infrared sensor
- Four (4) 'C' cell batteries
- Low battery level indicator (5000 flushes remaining)
- Infrared sensor range adjustment of 610mm-1422mm (24'' - 56'') in 8'' increments, factory set at 40'' (±2'')
- Vandal resistant copper tube conduit
- 24 hour courtesy flush factory set to off
- 6 VDC input
- Electronic manual override button
- Quiet action, Teck® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- External water conserving flush adjustment, factory set at 60 PSI to 6 litre (1.6 US gal.) (except -6 model)
- 1'' FIP/Copper sweat inlet adaptor, angle check stop with protecting cap
- Adjustable 121mm (4-3/4'') plus or minus 11mm (7/16'') inlet/valve outlet centers
- Vacuum breaker
- Cover tube, stainless steel wall flange, spud flange, concealed spud nut, and 292mm (11-1/2'') outlet tube.

81T201-6-WMSBT
Same as 81T201-WMSBT, but Not Field Adjustable

Note: Measurements may vary ± 6mm (0.25'')

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Refer to www.specselect.com for individual models. Note: Use this page as a product submittal sheet.

Approvals:
- CSA certified
- Complies to ASSE 1037
- ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO listed
  (Contact Delta Representative for State and/or Local Approvals.)
Electronic Exposed TECK® Flush Valves

DSP–81T201-WMS

Refer to www.specselect.com for individual models.

Note: Measurements may vary ± 6mm (0.25")

Note: Use this page as a product submittal sheet.

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Approvals:
- CSA certified
- Complies to ASSE 1037
- ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO listed

[Contact Delta Representative for State and/or Local Approvals.)

Engineer/Architect Approval
Model Specified: Approval: Date:

H₂OPTICS™ technology

Transformer Selection

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<tr>
<th>Transformer</th>
<th>Description</th>
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<tbody>
<tr>
<td>060704A</td>
<td>110 to 24VAC Class II 20VA (for up to 5 Sensor Modules)</td>
</tr>
<tr>
<td>060771A</td>
<td>110 to 24VAC Class II 40VA (up to 10 Sensor Modules)</td>
</tr>
<tr>
<td>060772A</td>
<td>110 to 24VAC Class II 100VA (up to 25 Sensor Modules)</td>
</tr>
</tbody>
</table>

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Note: Measurements may vary ± 6mm (0.25")

Not Field Adjustable

81T201-6-WMSHW

Same as 81T201-WMSHW, but Not Field Adjustable

- Polished chrome plated vandal resistant metal cover with 4" wallmount sensor
- Right or left-hand supply installation
- ADA compliant, automatic operation hard wire powered H₂OPTICS™ technology infrared sensor
- Infrared sensor range adjustment of 610mm-1422mm (24" - 56"), in 8" increments, factory set at 40" (±2"
- Hardwire adaptor
- Vandal resistant copper tube conduit
- 24 hour courtesy flush factory set to off
- 24 VAC input
- Electronic manual override button
- (110 to 24 VAC Transformer not included. See selection below for additional part number.)
- Quiet action, Teck® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish

External water conserving flush adjustment, factory set at 60 PSI to 6 litre (1.6 US gal.) (except -6 model)

- 1" FIPT/Copper sweat inlet adaptor, angle check stop with protecting cap
- Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/outlet centers
- Vacuum breaker
- Cover tube, stainless steel wall flange, spud flange, concealed spud nut, and 292mm (11-1/2") outlet tube

81T201-WMSHW

- Polished chrome plated vandal resistant metal cover with 4" wallmount sensor
- Right or left-hand supply installation
- ADA compliant, automatic operation hard wire powered H₂OPTICS™ technology infrared sensor
- Infrared sensor range adjustment of 610mm-1422mm (24" - 56"), in 8" increments, factory set at 40" (±2"
- Hardwire adaptor
- Vandal resistant copper tube conduit
- 24 hour courtesy flush factory set to off
- 24 VAC input
- Electronic manual override button
- (110 to 24 VAC Transformer not included. See selection below for additional part number.)
- Quiet action, Teck® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish

Approved:
- CSA certified
- Complies to ASSE 1037
- ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO listed

(Contact Delta Representative for State and/or Local Approvals.)
Electronic Exposed TECK® Flush Valves

81T231BT
- Exposed Battery Operated
3/4" Top Inlet Urinal Fixture
- Polished chrome plated vandal resistant metal cover with top mounted sensor operated electronics
- Right or left-hand supply installation
- ADA compliant, automatic operation battery powered infrared sensor
- Scratch resistant lens window
- Four (4) size AA alkaline batteries factory installed with valve in sleep mode for easy installation
- Low battery flashing light (5000 flushes remaining)
- Infrared sensor range adjustment of 457mm-914mm (18" - 36"), factory set at 24" (±2")
- Optional 24 hour automatic flush factory set to on
- Setup sensor range adjustment indicator light, solid state electronics
- 6 VDC input, 5 second arming delay, 8" downward beam
- Electronic operated non-hold-open metal manual override button with 5 second lockout
- Quiet action, TECK® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- External water conserving flush adjustment, factory set at 60 PSI to 2.7 litre (.70 US gal.)
- 1" FIP / 3/4" copper sweat inlet adaptor, angle check stop with protecting cap
- Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/valve outlet centers
- Vacuum breaker
- Cover tube, stainless steel wall flange, spud flange, spud nut, and 330mm (13") outlet tube.

Approvals:
- CSA certified
- Complies to ASSE 1037
- ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO listed
(Contact Delta Representative for State and/or Local Approvals.)
U.S. Patent # 6, 826, 455

Engineer/Architect Approval
Model Specified:
Approval: Date:

81T231BT

Electronic Exposed TECK® II Flush Valve Retrofit Kits

81T231-20BT
Same as 81T231BT, but LESS stop, cover tube and wall flange.

Note: Measurements may vary ± 6mm (0.25")

Refer to www.specselect.com for individual models.

Note: Use this page as a product submittal sheet.

Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.
81T231-30BT
Exposed Battery Operated
3/4" Top Inlet Urinal Fixture
LESS STOP, WITH MODIFIED TAIL TO FIT SLOAN®/ZURN® STOP
- Polished chrome plated vandal resistant metal cover with top mounted sensor operated electronics
- ADA compliant, automatic operation battery powered infrared sensor
- Scratch resistant lens window
- Four (4) size AA alkaline batteries factory installed with valve in sleep mode for easy installation
- Low battery flashing light (5000 flushes remaining)
- Infrared sensor range adjustment of 457mm-914mm (18" - 36"), factory set at 24" (+/-2")
- Optional 24 hour automatic flush factory set to on
- Set-up sensor range adjustment indicator light, solid state electronics
- 6 VDC input, 5 second arming delay, 8° downward beam
- Electronic operated non-hold-open metal manual override button with 5 second lockout
- Quiet action, Teck® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- **External water conserving flush adjustment**, factory set at 60 PSI to 2.7 litre (.70 US gal.)
- Adjustable 114mm to 131mm (4.5" to 5.18") inlet/valve outlet centers
- Vacuum breaker
- Spud flange, spud nut, and 330mm (13") outlet tube

Note: Measurements may vary ± 6mm (0.25")

Refer to www.specselect.com for individual models.

Note: Use this page as a product submittal sheet.

<table>
<thead>
<tr>
<th>81T231-30BT</th>
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<tr>
<td>114mm (4.5&quot;)</td>
<td>131mm (5.18&quot;)</td>
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<td>137mm (5.4&quot;)</td>
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<td>54mm (2.13&quot;) MIN.</td>
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Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.
Electronic Exposed TECK® Flush Valves

81T231HW
- Exposed Hard Wire Operated
3/4" Top Inlet Urinal Fixture
- Polished chrome plated vandal resistant metal cover with top mounted sensor operated electronics
- Right or lefthand supply installation
- ADA compliant, automatic operation hard wire powered infrared sensor
- Scratch resistant lens window
- Infrared sensor range adjustment of 457mm-914mm (18" - 36"), factory set at 24" (±2")
- Hardwire adaptor
- Vandal resistant copper tube conduit
- Optional 24 hour automatic flush factory set to on
- Setup sensor range adjustment indicator light, solid state electronics
- 24 VAC input, 5 second arming delay, 8° downward beam
- Electronic operated non-hold-open metal manual override button with 5 second lockout
- I110 - 24 VAC Transformer not included. See selection below for additional part number.
- Quiet action, Teck® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- External water conserving flush adjustment, factory set at 60 PSI to 2.7 litre (70 US gal.)
- 1" FIP / 3/4" copper sweat inlet adaptor, angle check stop with protecting cap
- Adjustable 121mm (4-3/4"") plus or minus 11mm (7/16") inlet/valve outlet centers
- Vacuum breaker
- Cover tube, stainless steel wall flange, spud flange, spud nut, and 330mm (13") outlet tube

81T231-20HW
Same as 81T231HW, but LESS stop, cover tube and wall flange.

Note: Measurements may vary ± 6mm (0.25")

Approvals:
- CSA certified
- Complies to ASSE 1037
- ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO listed
(Contact Delta Representative for State and/or Local Approvals.)
U.S. Patent # 6,826,455

Electronic Exposed TECK® II Flush Valve Retrofit Kits

81T231-20HW
Same as 81T231HW, but LESS stop, cover tube and wall flange.

TRANSFORMERS:

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<tr>
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<th>060704A</th>
<th>110 to 24VAC Class II 20VA (for up to 10 Electronic Valves)</th>
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<td>060771A</td>
<td>110 to 24VAC Class II 40VA (up to 20 Electronic Valves)</td>
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<td></td>
<td>060772A</td>
<td>110 to 24VAC Class II 100VA (up to 50 Electronic Valves)</td>
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Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.
**DELTA COMMERCIAL**

**TECK® Electronic Exposed TECK® Flush Valves for Sloan®/Zurn® Stops**

- **81T231-30HW**
  - Exposed Hard Wire Operated
  - 3/4" Top Inlet Urinal Fixture
  - LESS STOP, WITH MODIFIED TAIL TO FIT SLOAN®/ZURN® STOP

- Polished chrome plated vandal resistant metal cover with top mounted sensor operated electronics
- Right or left-hand supply installation
- ADA compliant, automatic operation hard wire powered infrared sensor
- Scratch resistant lens window
- Infrared sensor range adjustment of 457mm-914mm (18" - 36"), factory set at 24" (±2")
- Hardwire adaptor
- Vandal resistant copper tube conduit
- Optional 24 hour automatic flush factory set to on
- Set-up sensor range adjustment indicator light, solid state electronics
- 24 VAC input, 5 second arming delay, 8" downward beam
- Electronic operated non-hold-open metal manual override button with 5 second lockout
  - [110 to 24 VAC Transformer not included. See selection below for additional part number.]
- Quiet action, Teck® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish
- **External water conserving flush adjustment,** factory set at 60 PSI to 2.7 litre (.70 US gal.)
  - Adjustable 114mm to 131mm (4.5" to 5.18") inlet/valve outlet centers
  - Vacuum breaker
  - Spud flange, spud nut, and 330mm (13") outlet tube

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**Approvals:**
- CSA certified
- ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO listed

[Contact Delta Representative for State and/or Local Approvals.]

U.S. Patent # 6, 826, 455

**Engineer/Architect Approval**

Model Specified:  
Approval: Date:

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** Transformers:**

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**Note:** Measurements may vary ± 6mm (0.25"")

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**Refer to www.specselect.com for individual models.**

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**Note:** Use this page as a product submittal sheet.

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Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation.

Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
Electronic Exposed TECK® Flush Valves

- **81T231-WMSBT**
  - Exposed Battery Operated
  - 3/4" Top Inlet Urinal Fixture

  - Polished chrome plated vandal resistant metal cover with 4" wallmount sensor
  - Right or left-hand supply installation
  - ADA compliant, automatic operation battery powered H₂OPTICS™ technology infrared sensor
  - Four (4) ‘C’ cell batteries
  - Low battery level indicator (5000 flushes remaining)
  - Infrared sensor range adjustment of 305mm-711mm (12" - 28"), in 4" increments, factory set at 20" (±2")
  - Vandal resistant copper tube conduit
  - Adjustable 24 hour courtesy flush factory set to on
  - 6 VDC input
  - Electronic manual override button
  - Quiet action, TECK® exposed diaphragm flush valve
  - Chloramine resistant diaphragm
  - Forged brass diaphragm retainer
  - Renewable seat
  - Polished chrome plated finish
  - **External water conserving flush adjustment**, factory set at 60 PSI to 2.7 litre (.70 US gal.)
  - 1" FIP / 3/4" copper sweat inlet adaptor, angle check stop with protecting cap
  - Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/valve outlet centers
  - Vacuum breaker
  - Cover tube, stainless steel wall flange, spud flange, spud nut, and 330mm (13") outlet tube.

**Approvals:**
- CSA certified
- EPA compliant to ASSE 1037
- ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1 of less than 5 lbs. operating force.
- IAPMO listed

Refer to www.specselect.com for individual models.

**Note:** Measurements may vary ± 6mm (0.25")

**Note:** The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Note: Use this page as a product submittal sheet.
Electronic Exposed TECK® Flush Valves

81T231-WMSHW
- Exposed Hard Wire Operated
3/4" Top Inlet Urinal Fixture

- Polished chrome plated vandal resistant metal cover with 4" wallmount sensor
- Right or left-hand supply installation
- ADA compliant, automatic operation hard wired powered H₂OPTICS™ technology infrared sensor
- Infrared sensor range adjustment of 305mm-711mm (12" - 28"), in 4" increments, factory set at 20" (±2")
- Hardwire adaptor
- Vandal resistant copper tube conduit
- Adjustable 24 hour courtesy flush factory set to on
- 24 VAC input
- Electronic manual override button
- [110 to 24 VAC Transformer not included. See selection below for additional part number.]
- Quiet action, Teck® exposed diaphragm flush valve
- Chloramine resistant diaphragm
- Forged brass diaphragm retainer
- Renewable seat
- Polished chrome plated finish

External water conserving flush adjustment,
factory set at 60 PSI to 2.7 litre (.70 US gal.)

1" FIP / 3/4" copper sweat inlet adaptor, angle check stop with protecting cap
- Adjustable 121mm (4-3/4") plus or minus 11mm (7/16") inlet/valve outlet centers
- Vacuum breaker
- Cover tube, stainless steel wall flange, spud flange, spud nut, and 330mm (13") outlet tube

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Note: The recommended Flush Valve operating pressure range is between 35 and 65 psi. See page 7.C.18 High Water Pressure note for more details.

Refer to www.specselect.com for individual models. Note: Use this page as a product submittal sheet.
TECK® Flush Valve

STANDARD EQUIPMENT
The following features are supplied as standard equipment on all Teck® Flush Valves.

WATER CONSERVATION FEATURES:
- External Volume Adjustment®
- “Non-Hold Open” Handle
- “Pressure Loss Check” Stop

ADDITIONAL FEATURES:
- Adjustable Tail
- CSA Certified
- Conforms to ASSE 1037
- Copper Sweat Inlet Adaptor - 1”
- Concealed Spud Nut (Sanitary)
- Constant Peak Flow
- Copper Sweat Inlet Adaptor - 1”
- Diaphragm Type Valve

EASY MAINTENANCE
The few parts within the Teck® Flush Valve make inspection and maintenance quick and straightforward. Originally designed on sound hydraulic principles the entire valve is correspondingly well engineered. A screwdriver is the only tool needed for regulation and one diaphragm will service all Teck® model flush valves.

EASY MAINTENANCE
The few parts within the Teck® Flush Valve make inspection and maintenance quick and straightforward. Originally designed on sound hydraulic principles the entire valve is correspondingly well engineered. A screwdriver is the only tool needed for regulation and one diaphragm will service all Teck® model flush valves.

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EASY MAINTENANCE
The few parts within the Teck® Flush Valve make inspection and maintenance quick and straightforward. Originally designed on sound hydraulic principles the entire valve is correspondingly well engineered. A screwdriver is the only tool needed for regulation and one diaphragm will service all Teck® model flush valves.

WATER CONSERVATION
Avoiding wasted water results in lower building operating costs.

External Volume Adjustment
All Teck® Flush Valves allow efficient water usage because they can be externally adjusted, after installation, so the flush volume matches the requirement of the companion fixture. (Except - 6 Models, 6 litre volume factory set values)

“Non Hold-Open” Handle
Holding the handle down, in the open position, activates the flushing cycle. Once started, the flush valve goes through its regular operation cycle and, when completed, the valve shuts off, even if the handle continues to be held open. This feature also reduces the risk of too much water which could flood the fixture and spill on the floor.

“Pressure Loss Check” Stop
Loss of pressure in a supply line can cause a flush valve to flush spontaneously and run continuously. The “Pressure Loss Check” keeps the upper valve chamber and the inlet stop at normal line pressure after each flush cycle, preventing false operation of the flush valve when pressure is lost and then restored. Causes of pressure loss can be nearby heavy fire fighting demand, breaks in water mains, water pump failure, etc. The “Pressure Loss Check” stop also offers protection against back siphonage, together with the vacuum breaker.

CONSTANT PEAK FLOW
A strong efficient flushing cycle characterizes Teck® Flush Valves. This means a small volume of water, when delivered in a short time, does the necessary scouring and cleansing of the fixture. The Teck® flush valve always delivers a constant peak flow of water as the diaphragm travel is not restricted to achieve different flush volume settings.

DIAPHRAGM
The Diaphragm/Seat Washer is molded as a single part. A great deal of engineering, development and testing has gone into the diaphragm in order to give the best combination of properties including flexibility, endurance and chloramine resistance. With Teck®s separate regulating feature, only ONE diaphragm is used on all Teck® Flush Valve models.

WATER CONSERVATION FEATURES:
- External Volume Adjustment®
- “Non-Hold Open” Handle
- “Pressure Loss Check” Stop

ADDITIONAL FEATURES:
- Adjustable Tail
- CSA Certified
- Conforms to ASSE 1037
- Copper Sweat Inlet Adaptor - 1”
- Concealed Spud Nut (Sanitary)
- Constant Peak Flow
- Copper Sweat Inlet Adaptor - 1”
- Diaphragm Type Valve

EASY MAINTENANCE
The few parts within the Teck® Flush Valve make inspection and maintenance quick and straightforward. Originally designed on sound hydraulic principles the entire valve is correspondingly well engineered. A screwdriver is the only tool needed for regulation and one diaphragm will service all Teck® model flush valves.

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DIAPHRAGM
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WATER CONSERVATION FEATURES:
- External Volume Adjustment®
- “Non-Hold Open” Handle
- “Pressure Loss Check” Stop

ADDITIONAL FEATURES:
- Adjustable Tail
- CSA Certified
- Conforms to ASSE 1037
- Copper Sweat Inlet Adaptor - 1”
- Concealed Spud Nut (Sanitary)
- Constant Peak Flow
- Copper Sweat Inlet Adaptor - 1”
- Diaphragm Type Valve

EASY MAINTENANCE
The few parts within the Teck® Flush Valve make inspection and maintenance quick and straightforward. Originally designed on sound hydraulic principles the entire valve is correspondingly well engineered. A screwdriver is the only tool needed for regulation and one diaphragm will service all Teck® model flush valves. Another example of value engineering is the non-metallic sleeve located at the handle area which eliminates metal to metal contact, reducing wear and extending product life.

TIME TESTED
Teck® Flush Valves have proven their ability to perform under a wide variety of conditions for over 80 years. The diaphragm, for example, has been in use, with excellent results, for over 30 years.

VANDAL RESISTANCE
To stand up to tough conditions Teck® Flush Valves are ruggedly constructed from the heavy duty body, to the “Non-Hold-Open” handle, to the vandal resistant cover screw.

HIGH WATER PRESSURE
Teck® flush valves will operate up to 125 psi, however, the PREFERRED OPERATING PRESSURE RANGE IS BETWEEN 35 AND 65 PSI. Pressures over 75 psi lead to an increase in noise, water could splash out of the fixture more easily and the life of any plumbing valve may be shortened. For pressures over 75 psi a pressure reducing valve is recommended.

HERE’S HOW THE TECK® FLUSH VALVE OPERATES

1. Flush valve in closed position
Water, at line pressure, lies in the valve where indicated. Whether the installation is exposed or concealed, actuated by oscillating handle; push button or push plate the simply constructed diaphragm mechanism is the same.

2. Flush Starts
Depressing the handle opens the relief valve (A). This allows some water in the pressure chamber (B) to escape through chamber (H) to the flush tube. Simultaneously, line pressure (C) forces the diaphragm unit to rise, allowing water to pass between diaphragm unit (D) and seat (E) to the fixture. As the diaphragm rises it also brings up the non-hold open piston (J) and causes it to seal chamber (H).

3. Valve Open And Flushing
While water is flowing to flush the fixture, it is also moving through a bypass slot in a regulating screw (G) and into the pressure chamber (B). If the handle is kept in the depressed position, piston (J) will remain seated. The piston (J) will only drop into its original position in the diaphragm unit after the handle is released and chamber (H) has been repressurized. (This last describes how the Non-Hold-Open handle works.)

4. Closing Cycle
Flushing continues until enough water passes through the regulating screw (G) to refill pressure chamber (B) at line pressure. Since the area under pressure on the upper side of the diaphragm is greater than on the lower side, the diaphragm unit descends, closing off the flow of water and completing the cycle.