

Limited One Year Warranty

T&S warrants to the original purchaser (other than for purposes of resale) that such product is free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this one-year warranty period, if the product is found to be defective, T&S shall, at its options, repair and/or replace it. To obtain warranty service, products must be returned to...

T&S Brass and Bronze Works, Inc.
Attn: Warranty Repair Department
2 Saddleback Cove
Travelers Rest, SC 29690

Shipping, freight, insurance, and other transportation charges of the product to T&S and the return of repaired or replaced product to the purchaser are the responsibility of the purchaser. Repair and/or replacement shall be made within a reasonable time after receipt by T&S of the returned product. This warranty does not cover items which have received secondary finishing or have been altered or modified after purchase, or for defects caused by physical abuse to or misuse of the product, or shipment of the products.

Any express warranty not provided herein, and any remedy for Breach of Contract which might arise, is hereby excluded and disclaimed. Any implied warranties of merchantability or fitness for a particular purpose are limited to one year in duration. Under no circumstances shall T&S be liable for loss of use or any special consequential costs, expenses or damages.

Some states do not allow limitations on how long and implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Specific rights under this warranty and other rights vary from state to state.

P/N: 098-009579-45 Rev.1
Date: 980521
Drawn: CW
Checked: MAB 7-23-98
Approved: MVW 7-23-98

Installation and Maintenance Instructions



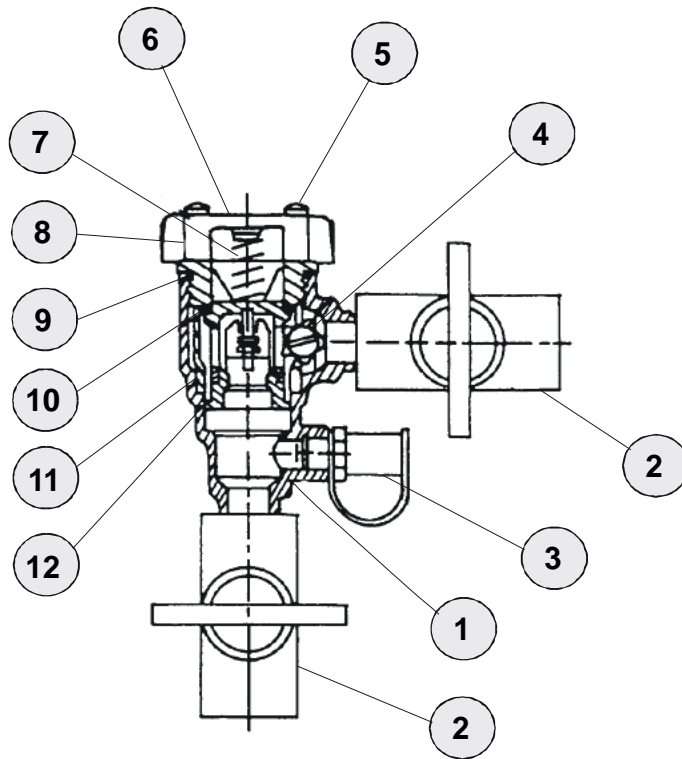
B-0963 (1/2") CONTINUOUS PRESSURE VACUUM BREAKERS

**Deutsch: Installations- und
Wartungsanleitungen**

**Español: la Instalación y las
Instrucciones de
Mantenimiento**

**Français: les Instructions
d'Installation et
d'Entretien**

Sectional View



Part Number Guide

Vacuum Breaker Assembly

- | | |
|----|-----------------------|
| 1 | Body |
| 2 | Shut-off Valve |
| 3 | Test Cock |
| 4 | Bleed Screw |
| 5 | Hood Screw |
| 6 | Hood |
| 7 | Vent Springs |
| 8 | Bonnet |
| 9 | O'-Ring |
| 10 | Vent 'O'-Ring |
| 11 | Retainer |
| 12 | Welded Check Assembly |

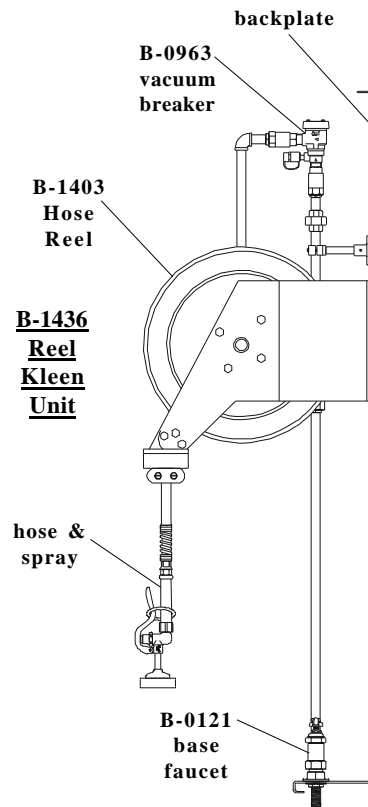
Parts for this assembly are not available for replacement.

General Instructions

Typical Installation:

Vacuum Breaker

1. Vacuum breakers designed for continuous pressure applications will follow the AVB guidelines of 6" or the PVB guideline of 12" above the flood rim. A typical installation is shown below:



Specifications:

A vacuum breaker should be installed according to manufacturer's instructions.

The valve consists of a modular check and float assembly made of engineered thermoplastic and housed in a bronze body. The valve is constructed with a molded diaphragm separating the air inlet from the potable water supply to prevent spillage. Some slight spillage may occur when water outlet is above vacuum breaker or when water is shut off abruptly.

Features:

Designed for indoor point of use applications to prevent back-siphonage of contaminated water into the potable water supply. Separation of the water supply from the air inlet is accomplished by means of a diaphragm seal. This protects against spillage during start-up or operation.

- * Modular cartridge for ease of service
- * Vent uses an 'O'-ring for reliable operations
- * Bronze body for durability
- * Compact space-saving design
- * Standardly equipped with an 'E-Z/TC' Testcock

Materials:

Springs - Stainless Steel
Bonnet - Noryl
Vent Disc - Silicone Rubber
Disc Holder - Noryl
Check Disc - Silicone Rubber
Body - Bronze

Pressure Temperature Ratings:

Working Temperature - 33°-180°F
Max. pressure - 150 psi
Min. Pressure - 8 psi

End Connections:

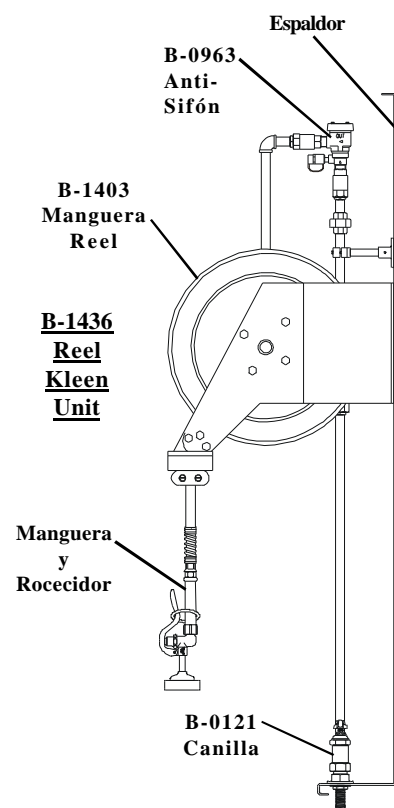
Female NPT (National Pipe Threads) -
Ball Valve Shut-off

Instruccione Generales

Instalación Típica:

Anti-Sifón

1. El diseño del Anti-Sifón para aplicaciones de presión continua seguirán las normas de AVB de 6" [15cm] o las normas de PVB de 12" [30cm] sobre el borde de represa. Una instalación típica esta ilustrada abajo.



Especificaciones:

Un Ani-Sifón debe ser instalado a las instrucciones de factoría.

La válvula consiste de tenedor modular y un ensamble con flote hecho de termoplástico ingenierado y almacenado en cartucho de bronce. La válvula está construída con un diafragma formado separando la entrada de aire del surtido de agua potable para prevenir derrames. Algunos leves derrames pueden ocurrir cuando la boquilla este sobre el Anti-Sifón o cuando el agua se cierre bruscamente.

Facciones:

Es diseñado para ser usado en el interior en aplicaciones para prevenir que agua contaminada se sifone al surtido de agua potable. Separación del surtido de agua a la entrada de aire es llevada a cabo por medio de un sello de diafragma. Esto protege contra derrames durante el principio de operación.

- * Cartucho modular para facilitar el mantenimiento.
- * Agüjero usa una argolla de caucho para operaciones dependibles.
- * Cartucho de bronce para durabilidad
- * Diseño compacto para ahorrar espacio
- * Equipo universal con "E-Z/TC" válvula de prueba

Materiales:

Resorte - Hierro inoxidable
Cubierta - Noryl
Disco Ventilado - Goma De Silicone
Sostenedor Del Disco - Noryl
Disco Detendor - Goma De Silicone
Cuerpo - Bronce

Determinación De Presión Y Temperatura:

Temperatura Operable: 33°-180°F
Presión Máxima - 150 psi
Presión Mínima - 8 psi

Connecciones De Extremo:

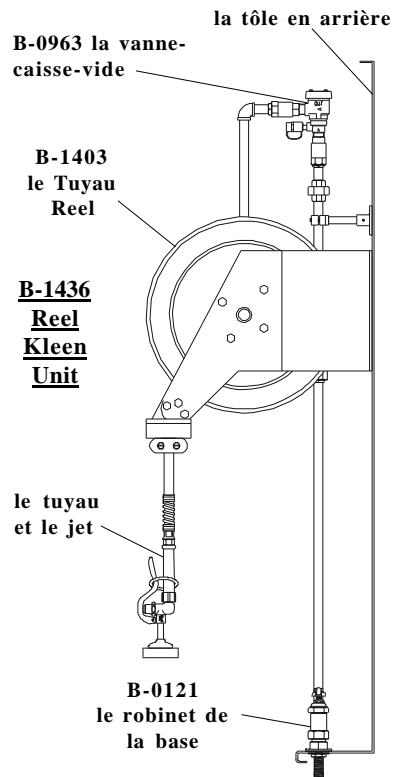
Rosca De Tubo Femenina - Detendor
Válvula De Bola

Instructions Générales

L'Installation Typique:

La Vanne-Caisse-Vide

1. Les vannes -caisse-vide ont conçu pour des applications continues de pression suivront les directives de AVB de 6 "[15 cm] ou de la directive de pvb de 12 "[30 cm] au-dessus du bord d'inondation. L'installation typique est montrée ci-dessous:



Les Spécifications:

Une vanne-caisse-vide doit être installée en suivant les instructions du fabricant.

La soupape se compose d'un document en circulation modulaire fait de thermoplastique machiné et logé dans un corps en bronze. La soupape est construite avec un diaphragme moulé séparant l'entrée d'air de l'approvisionnement en eau potable pour empêcher le débordement. Du léger débordement peut se produire quand la sortie de l'eau est au-dessus de la vanne-caisse- vide ou quand l'eau est coupée brusquement.

Les Caractéristiques:

Conçu pour le point d'intérieur d'applications d'utilisation pour empêcher en arrière le siphonage de l'eau souillée dans l'approvisionnement en eau potable. La séparation de l'approvisionnement en eau de l'entrée d'air est accompli à l'aide d'un joint de diaphragme. Ceci se protège contre le débordement pendant la cartouche de la mise en train operation.

- * Modulaire pour la facilité du service
- * L'orifice utiliser un anneau d' "o" pour la fonctionnement fiable
- * Un corps en bronze pour la solidité
- * Un dessin compact et qui économiser l'espace
- * Équipé standard d'un flotteur pour des essais "E-Z/TC"

Les Matériaux

Les ressorts - l'acier inoxydable
Le capot - la noryl
Le disque d'orifice - le caoutchouc de silicone
Le support de disque - la noryl
Contrôleur de disque - le caoutchouc de silicone
Le corps - bronze

Les estimations de la température de pression

La température de fonctionnement -33-180 f
La pression maximum-150 psi
La pression minimum- 8 psi

Connexions d'extrémité:

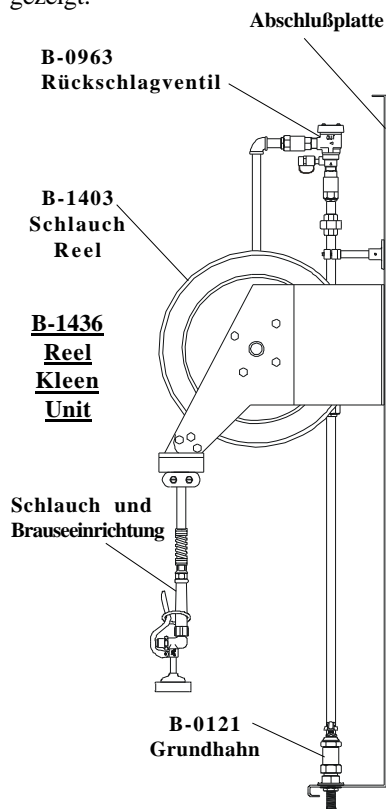
Femelle NPT- L'interruption de la soupape de bal

Allgemeine Anleitungen

Typische Installation:

Rückschlagventil

1. Rückschlagventile, die für stetige Druckanwendungen ausgelegt sind, entsprechen den AVB-Richtlinien mit 6" [15 cm] oder der PVB-Richtlinie mit 12" [30 cm] über dem Überlauftrand. Unten wird eine typische Installation gezeigt:



Vorgaben:

Ein Vakuumunterbrecher muß entsprechend den Anweisungen des Herstellers installiert werden.

Das Ventil besteht aus einer modularen Regel- und Schwimmergarnitur, die aus Thermoplastik hergestellt ist und sich in einem Gehäuse aus Bronze befindet. Das Ventil besteht aus einer geformten Membran, die die Luftzufuhr von der Trinkwasserzufuhr trennt, um Überlaufen zu vermeiden. Leichtes Überlaufen kann vorkommen, wenn der Wasserauslauf über dem Vakuumunterbrecher liegt oder das Wasser plötzlich abgesperrt wird.

Merkmale

Es ist für die Innenbenutzung konstruiert um den Rücklauf von Schmutzwasser in die Trinkwasser-versorgung zu verhindern. Die Trennung des Wasserzuflusses von dem Luftzufluß wird durch eine Membrandichtung erzielt. Diese verhindert Überlaufen während der Inbetriebnahme Benutzung oder während des normalen Betriebs.

- Modulare Kartusche zur einfacheren Benutzung
- Entlüftung durch einen O-Ring für zuverlässigen Betrieb
- Bronzegehäuse für Dauerhaftigkeit
- Kompakte, raumsparende Konstruktion Ausgerüstet mit einem "E-Z/TC" Testhahn

Material:

Federn - rostfreier Stahl
Haube - Noryl
Entlüftungsscheibe - Silikongummi
Scheibenhalter - Noryl
Kontrollscheibe - Silikongummi
Gehäuse - Bronze

Drucktemperaturbewertungen:

Arbeitstemperatur - 33° -180° F
Höchstdruck - 150 psi
Mindestdruck - 8 psi

Endverbindungen:

NPT-Innenkugelabsperrentil

RELATED T&S BRASS PRODUCT LINE



B-0965
Atmospheric Vacuum
Breaker Assembly
with Exposed Outlet



B-0929
Atmospheric Back
Flow Preventer



B-0456
Atmospheric
Vacuum Breaker
Assembly

T&S BRASS AND BRONZE WORKS, INC.

A firm commitment to application-engineered plumbing products

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RELIABILITY BUILT IN™

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P/N: 098-009518-45 Rev.2
Date: 05-15-06
Drawn: TEH
Checked: DHL 07-13-06
Approved: JHB 07-13-06

Installation and Maintenance Instructions



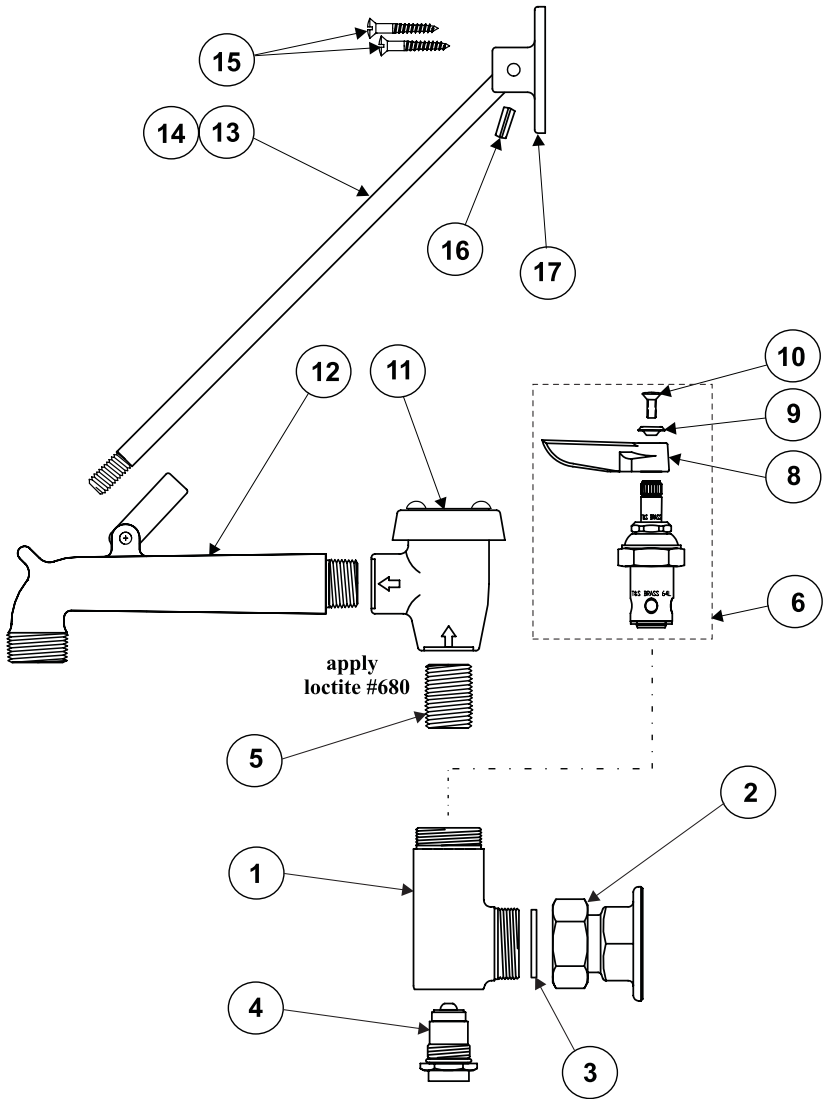
Surgical Sink and Service Sink Faucets with Built-In Stops B-0665-BST Series

Deutsch: Installations- und
Wartungsanleitun-
gen

Español: la Instalación y las
Instrucciones de
Mantenimiento

Français: les Instructions
d'Installation et
d'Entretien

Exploded View



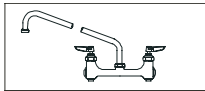
* Some items are listed for instructional purposes and may not be sold as separate parts.

Part Number Guide

Service Sink Faucet Assemblies

1	Asm, Base Faucet Body, Faucet	B-0665-BSTP *
2	Asm, Flange Coupling	002893-40
3	Washer, Coupling Flange	001019-45
4	Asm, BST Spindle & Insert	163A
5	Nipple, Close 1/2 HWL	002534-25
6	Asm, Eterna w/ Spring Checks & Handle (Cold)	002711-40
	Asm, Eterna w/ Spring Checks & Handle (Hot)	002712-40
8	Handle, Lever (Blank)	001638-45
9	Index, Button (Red / Hot)	001661-45
	Index, Button (Blue / Cold)	001660-45
10	Screw, Handle	000922-45
11	Asm, Vacuum Breaker, 1/2"	B-0969
12	Spout	*
13	Asm, Upper Nozzle Support	009546-40
14	Rod, Support	005060-40
15	Screw, Wall Mount	000915-45
16	Pin, Coiled 3/16" x 1/2" S.S.	004713-25
17	Flange	003007-40

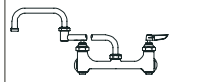
Models with Built-In Stops (-BST)



- B-0230-BST** Sink mixing faucet with 18" swing nozzle; lever handles
B-0231-BST Sink mixing faucet with 12" swing nozzle; lever handles
B-0232-BST Sink mixing faucet with 16" swing nozzle; lever handles



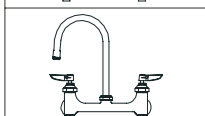
- B-0234-BST** Sink mixing faucet with 6" cast spout; lever handles



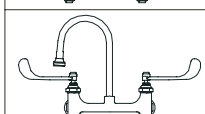
- B-0265-BST** Combo sink faucet w/ 18" double-joint swing nozzle
B-0266-BST Combo sink faucet w/ 15" double-joint swing nozzle
B-0267-BST Combo sink faucet w/ 12" double-joint swing nozzle



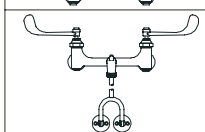
- B-0330-BST** Combo sink faucet w/ rigid gooseneck; lever handles



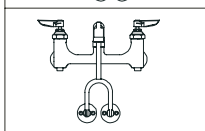
- B-0331-BST** Combo sink faucet w/ swivel gooseneck; lever handles



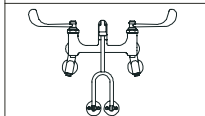
- B-0350-BST** Surgical sink fct w/rigid gooseneck; 6" WH; rosespray
B-0351-BST Surgical sink fct w/rigid gooseneck; 6" WH; stream reg.
B-0352 & -04 Surgical sink fct w/rigid GN; 6" & 4" WH; rosespray
B-0353 & -04 Surgical sink fct w/rigid GN; 6" & 4" WH; stream reg.



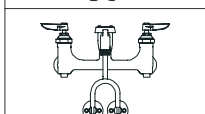
- B-0363** Service sink fct w/VB nozzle; 6" WH; bottom brace



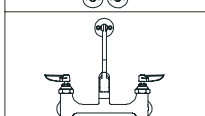
- B-0650-BSTP** Service sink fct w/pail hook nzl; btm brace; polished
B-0650-BSTR Service sink fct w/pail hook nzl; btm brace; rough



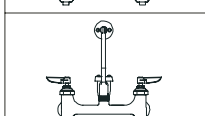
- B-0652** Service sink fct; 6" wrist-action handles; bottom brace



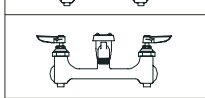
- B-0655-BSTP** Service sink fct w/VB nozzle; bottom brace; polished
B-0655-BSTR Service sink fct w/VB nozzle; bottom brace; rough
B-0657-BST Service sink fct w/VB nozzle; 6" WH; bottom brace



- B-0660-BSTP** Service sink fct w/pail hook nozzle; top brace; polished
B-0660-BSTR Service sink fct w/pail hook nozzle; top brace; rough



- B-0665-BSTP** Service sink fct w/VB & pail hook; top brace; polished
B-0665-BSTR Service sink fct w/VB & pail hook; top brace; rough



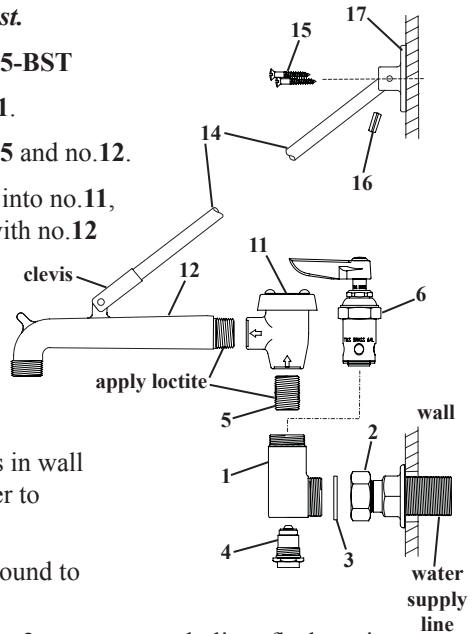
- B-0674-BSTP** Service sink fct w/VB & pail hook nozzle; polished
B-0674-BSTR Service sink fct w/VB & pail hook nozzle; rough

General Instructions

Note: This is a general instructional example of units using -BST. Nozzles should be installed on unit first.

Nozzle Installation: ex. model B-0665-BST

1. Remove no.6 from both sides of no.1.
2. Apply Loctite #680 to threads of no.5 and no.12.
3. Insert no.12 into no.11. Thread no.5 into no.11, then rotate no.11 into no.1 until tight with no.12 facing front of sink.
4. Replace no.6 into no.1 following nozzle installation.



Faucet Installation:

5. Shut off water supply and drain lines. Drill (2) two 7/8" [2.2 cm] holes in wall or backsplash of sink, 8" [20 cm] center to center, where you are installing no.1.
6. Apply teflon tape or pipe joint compound to threads of water supply lines.
7. Remove no.2 from no.1 and attach no.2 to water supply lines flush against wall. Tighten by hand. *Trim supply lines if necessary.*
8. Attach no.1 to no.2, adjusting center to center fit by turning no.2 if needed. *Make sure no.3 remains in place.* Tighten no.2 firmly with a wrench.
9. Turn on water supply and check for leaks.

Upper Nozzle Support Installation:

10. Attach no.14 to no.12 by screwing no.14 into *clevis* on no.12.
11. Position no.17 against wall. Mark holes and secure no.17 to wall using no.15.

Adjusting Built-in Stops:

Insert a screwdriver to adjust no.4 at the base of no.1 on each side. *Water should be turned on for this procedure.*

Close Stop
turn clockwise



Open Stop
turn counter-clockwise



**Bottom view of faucet body
and Built-in Stop**

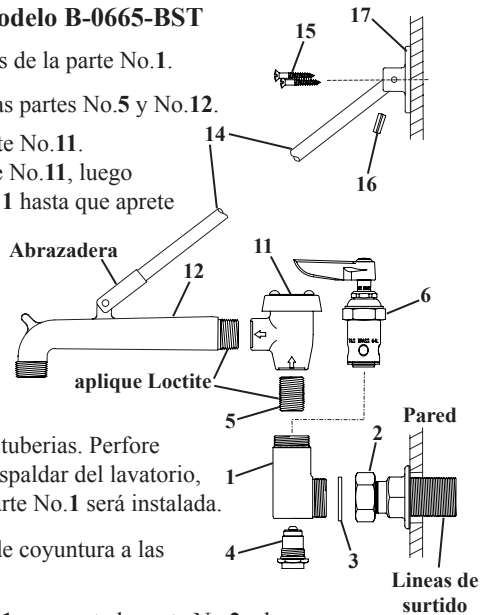
Instrucciones Generales

Nota: Esto es un ejemplo general instruccional de unidades que utilizan - BST. (Interceptor Incorporado.) Primero se debe de instalar las boquillas.

Instalación De Boquilla: Ejem. Modelo B-0665-BST

1. Remuévala la parte No.6 de ambos lados de la parte No.1.
2. Aplique Loctite #680 a las roscas de las partes No.5 y No.12.
3. Inserte la parte No.12 dentro de la parte No.11. Enrosque la parte No.5 dentro de la parte No.11, luego gire la parte No.11 dentro de la parte No.1 hasta que aprete con la parte No.12 orientada hacia el frente del lavatorio.

4. Después de la instalación de la boquilla coloque de nuevo la parte No.6 dentro de la parte No.1.



Instalación De La Canilla:

5. Cierre la fuente de agua y desagüe las tuberías. Perfore (2) dos huecos de 2 cm en la pared o el espaldar del lavatorio, con 20 cm de centro a centro donde la parte No.1 será instalada.
6. Aplique cinta de Teflon o compuesto de coyuntura a las roscas de las líneas de surtido.
7. Remuévala la parte No.2 de la parte No.1 y conecte la parte No.2 a las líneas de surtido pareja con la pared. Apreté a mano. **Si es necesario recorte las líneas de surtido.**
8. Conecte la parte No.1 a la parte No.2, ajustando la medida de centro a centro girando la parte No.2 si es necesario. **Asegúrese que la parte No.2 permanezca situada.** Con una llave aprete firmemente la parte No.2.
9. Abra el surtido de agua e inspeccione por filtraciones.

Instalación De Soporte Superior:

10. Conecte la parte No.14 a la parte No.12 atornillando la parte No.14 dentro de la abrazadera en la parte No.12.
11. Coloque la parte No.17 contra la pared. Señale los huecos y asegure la parte No.17 a la pared usando la parte No.15.

Ajuste De Los Detenedores Incorporados:

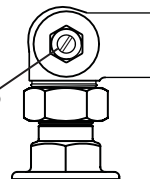
Para ajustar la parte No.4 inserte un destornillador por debajo de la parte No.1 en ambos lados. El agua debe estar abierta para este proceso.

Detenedor cerrado gire a la derecha



Detenedor Abierto gire a la izquierda

Parte no.4 tornillo de ajuste



Vista posterior de la canilla y Detenedor incorporado

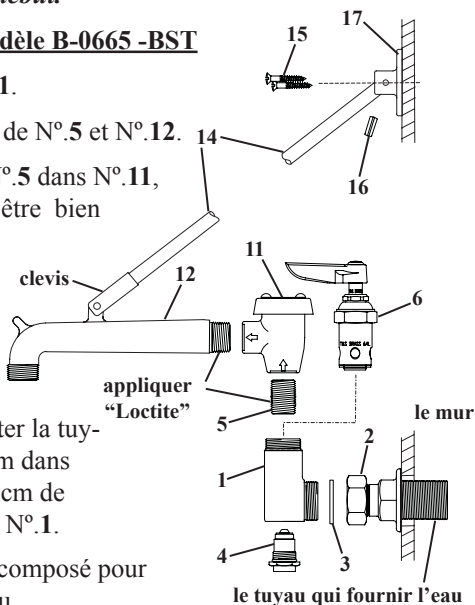
Instructions Générales

Celui-ci être un exemple générale et instructif des éléments qui utiliser BST

Les ajutages devoir être installer au début.

L'Installation De L'Ajutage: ex. modèle B-0665 -BST

1. Enlever N°.6 de chaque côté de N°.1.
2. Appliquer "loctite #680" aux filets de N°.5 et N°.12.
3. Insérer N°.12 dans N°.11. Mettre N°.5 dans N°.11, puis tourner N°.11 dans N°.1 jusqu'il être bien serrer et avec N°.12 vers la face de l'évier.
4. Remplacer N°.6 dans N°.1 après l'installation de l'ajutage.



L'Installation du Robinet:

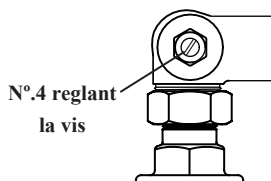
5. Fermer la réserve de l'eau et égoutter la tuyauterie. Percer (2) deux trous de 2.2cm dans le mur ou le garde-boue de l'évier 20cm de centre à centre où vous aller installer N°.1.
6. Appliquer le ruban en Téflon ou le composé pour les tuyaux aux tuyaux qui fournir l'eau.
7. Enlever N°. 2 de N°.1 et attacher N°.2 aux tuyaux qui fournir l'eau au même niveau du mur. Resserrer par le main. Couper les tuyaux qui fournir l'eau si nécessaire.
8. Attacher N°.1 à N°.2, en réglant l'ajustement centre à centre en tournant N°.2 si nécessaire. **Soyez certain que N°.3 rester à sa place.** Resserrer N°.2 fermement avec une clef anglaise.
9. Recommencer l'eau et vérifier s'il y a des fuites.

L'Installation du Support de L'Ajutage en Haut:

10. Attacher N°.14 à N°.12 en vissant N°.14 dans le clevis sur N°.12.
11. Mettre N°.17 contre le mur. Marquer les trous et attacher N°.17 au mur en utilisant N°.15.

La Réglage des Arrêts Encastrés:

Insérer un tournevis pour régler N°.4 à la base de N°.1 sur chaque côté. **On devoir déjà recommencer l'eau pour ce processus.**



Fermer l'arrêt tourner dans le sens des aiguilles d'une montre



Ouvert l'arrêt tourner dans le sens inverse des aiguilles d'une montre

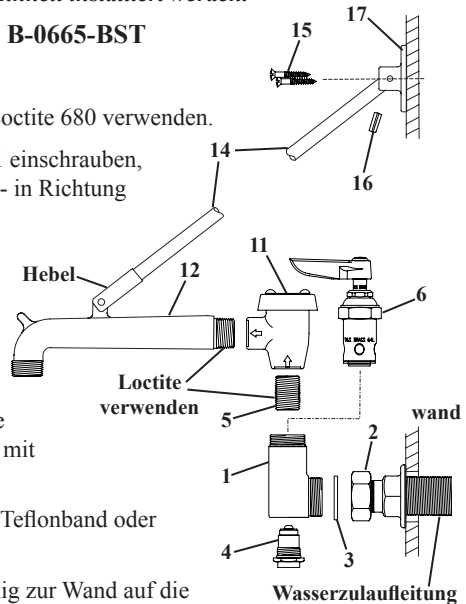
La vue du fond du corps du robinet et l'arrêt encastré

Allgemeine Anleitungen

Anmerkung: Die ist ein allgemeines Installationsbeispiel für Armaturen, die BST verwenden. Düsen sollten zuerst auf die Einheit installiert werden.

Einbau des Schwenkarms - Modell B-0665-BST

1. Nr. 6 beidseitig von Nr. 1 entfernen.
2. Für die Gewinde von Nr. 5 und Nr. 12 Loctite 680 verwenden.
3. Nr. 12 in Nr. 11 einfügen, Nr. 5 in Nr. 11 einschrauben, dann Nr. 11 in Nr. 1 eindrehen, bis Nr. 12 - in Richtung Vorderseite des Spültisches - festsetzt.
4. Nach dem Einbau des Schwenkarms Nr. 6 in Nr. 1 einsetzen.



Einbau des Wasserhahns:

5. Den Wasserzulauf schließen und die Leitungen leeren. Zwei 2 cm Löcher in die Wand oder die Rückwand der Spüle - je nachdem, wo Nr. 1 installiert werden soll - mit einem Mittenabstand von 20 cm bohren.
 6. Für die Gewinde der Wasserzuleitungen Teflonband oder Rohrdichtungsmasse verwenden.
 7. Nr. 2 von Nr. 1 entfernen und Nr. 2 bündig zur Wand auf die Wasserzulaufleitungen aufdrehen. Mit der Hand festziehen.
- Zulaufleitungen bei Bedarf kürzen.**
8. Nr. 1 an Nr. 2 befestigen, wobei auf mittigen Sitz zu achten ist und bei Bedarf Nr. 2 gedreht werden kann. *Sicherstellen, daß Nr.3 an Ort und Stelle verbleibt!* Nr. 2 mit einem Schraubenschlüssel festdrehen.

9. Wasserzulauf andrehen und auf Dichtigkeit überprüfen.

Einbau des oberen Schwenkarms:

10. Nr. 14 an Nr. 12 befestigen, indem Nr. 14 an dem Hebel auf Nr. 12 angeschraubt wird.
11. Nr. 17 an der Wand in Position bringen. Löcher markieren und Nr. 17 mit Hilfe von Nr. 15 an der Wand sichern.

Eingebaute Anschläge justieren:

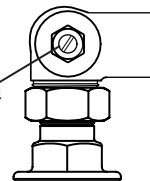
Mit einem Schraubendreher an der Basis von Nr. 1 auf beiden Seiten justieren. Das Wasser soll wie folgt an- bzw. abgedreht werden:

Anschlag für Geschlossen:
im Uhrzeigersinn drehen



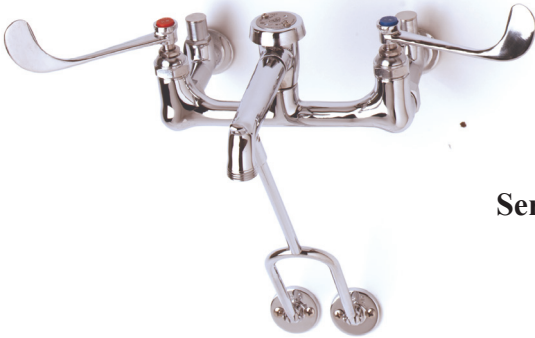
Anschlag für Offen:
gegen den Uhrzeigersinn drehen

Justierschraube Nr. 4



untere Ansicht des Wasserhahnkörpers und eingebaute Anschläge

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