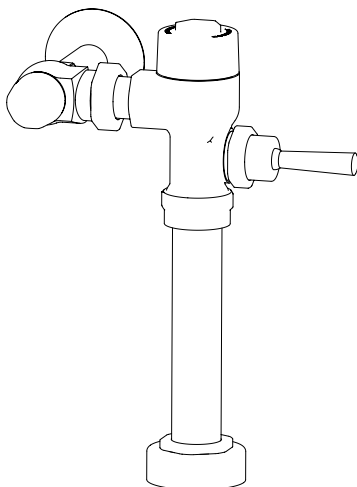


# Geberit Vortex Piston Flushometer Valves

## INSTALLATION INSTRUCTIONS

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In compliance with ASSE 1037

#### NOTE

Pressurized plumbing fixture flushing devices (flushometers) shall be installed in accordance with manufacturer's recommendations. The supply piping to these devices shall be securely anchored to the building structure to prevent installed device from unnecessary movement when operated by the user. Care shall be exercised when installing the device to prevent marring the exposed significant surface.

#### Copyrights

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#### Notice to Installers

Please leave this manual with the facility manager after completing the flushometer installation. This document contains information necessary for routine maintenance and servicing.



#### Geberit Manufacturing Division

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Phone: (847) 803-5000 • Fax: (847) 298-3101

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### Product Overview

Geberit Vortex Flushometers are reliable, competitively priced manual flushometer valves backed by a trusted name in plumbing products with a wealth of experience and excellent customer service.

### Vortex Piston Flushometer Features

- Durable, proven diaphragm performance
- Accurate, low consumption flushing performance
- Vandal resistance built in, including set screw on stop cap
- Adjustable slip joint tailpiece
- Non-hold open handle
- ADA compliant
- Renewable main valve seat
- Available in a wide variety of configurations to meet most installation needs.

Model Number	Flush Volume	Rough-In Dimension (in.)*	Spud Type	Stop Valve
<b>Urinal</b>				
116.700.21.1	1.0 GPF	11½	¾ Top	¾ I.P.S.
116.701.21.1	1.0 GPF	11½	1¼ Top	1 I.P.S.
116.702.21.1	1.5 GPF	11½	¾ Top	¾ I.P.S.
116.703.21.1	1.5 GPF	11½	1¼ Top	1 I.P.S.
116.704.21.1	1.0 GPF	Valve Only	None	None
116.705.21.1	1.5 GPF	Valve Only	None	None
<b>Water Closet</b>				
116.720.21.1	1.6 GPF	11½	1½ Top	1 I.P.S.
116.721.21.1	3.5 GPF	11½	1½ Top	1 I.P.S.
116.722.21.1	1.6 GPF	24	1½ Top	1 I.P.S.
116.723.21.1	3.5 GPF	24	1½ Top	1 I.P.S.
116.724.21.1	1.6 GPF	11½	1½ Back	1 I.P.S.
116.725.21.1	3.5 GPF	11½	1½ Back	1 I.P.S.
116.726.21.1	1.6 GPF	Valve Only	None	None
116.727.21.1	3.5 GPF	Valve Only	None	None
<b>Bedpan Washers</b>				
116.740.21.1	1.6 GPF	34	1½ Top	1 I.P.S.
116.741.21.1	3.5 GPF	34	1½ Top	1 I.P.S.
116.742.21.1	1.6 GPF	Retrofit	1½ Top	1 I.P.S.
116.743.21.1	3.5 GPF	Retrofit	1½ Top	1 I.P.S.

\* Rough-in dimension is the vertical distance from CL of rough-in to top of china.

### Prior To Installation

Before installing the flushometer, be sure the following items are properly installed:

- Urinal fixture
- Drain line
- Water supply line

### Tools Required for Installation

- Slotted screwdriver
- Standard box wrenches
- Smooth jawed adjustable wrench or Chicago Faucet Quatern wrench.

### Water Pressure and Volume

Geberit valves require a minimum operating pressure of 10 psi while flushing. All plumbing fixtures demand at least 10 psi, so if this minimum requirement is met, the valve should function properly.

In addition to pressure, volume requirements must be met to secure an adequate syphon. Most toilets require a minimum flow rate of 30 gpm. The lower the pressure, the larger the piping must be to supply the minimum flow.

Geberit valves are designed to operate at water pressure up to 100 psi. Ideally, pressures should range between 30-60 psi. At pressures of 80 psi and above, we recommend the use of pressure reducing valves in supply lines. At higher pressures, splashing is inevitable, noise is increased and the life span of all plumbing brass is reduced.

It is recommended that air chambers and/or water hammer arrestors be installed with flush valves. They should be installed as close to the fixture as possible. Air chambers are helpful in supplying a reservoir of water in the event of sudden pressure drops.

### Chrome Plating

If installation is into new construction, we recommend protecting all chrome surfaces from acid or cleaning fluid that can discolor chrome, until the building is occupied. This will help to protect the surface from damage.

**⚠ Do not use serrated-jaw wrenches on chrome surfaces. Use a smooth-jawed adjustable wrench or Chicago Faucet Quatern wrench.**

### Technical Support

For additional technical assistance, visit our website at: [www.us.geberit.com](http://www.us.geberit.com), or call:

**1-800-TEC-TRUE (1-800-832-8783)**

**IMPORTANT! Installations may be performed at different times of construction by different individuals. For this reason, these instructions should be left on-site with the facility or maintenance manager.**

### Safety Information

- Read this entire instruction sheet to ensure proper installation.
- Compliance and conformity to local codes and ordinances is the responsibility of the installer.

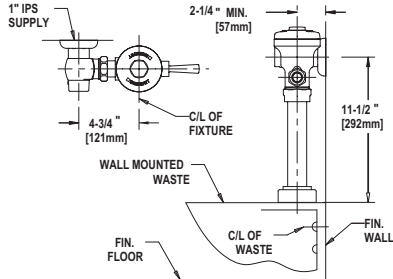
**⚠ Flush all the water supply lines before making connections.**

**⚠ CAUTION indicates a practice or condition that MAY result in damage to the equipment if the instruction or notice is ignored.**

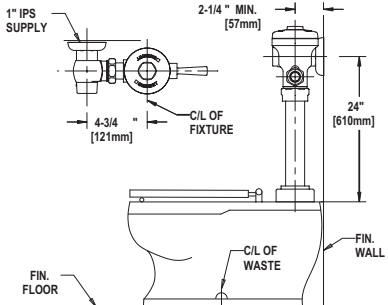
**ROUGH-IN DIMENSIONS (INCHES/MILLIMETERS)**

**VALVE ROUGH-IN - FIGURE A**

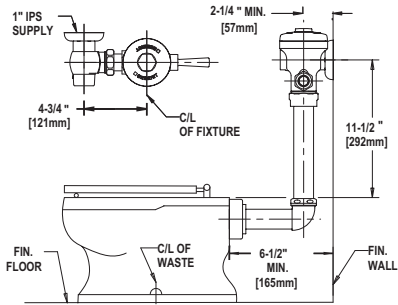
MODEL 117.620.21.1, 1.6 GPF (6.0 LPF)  
MODEL 117.621.21.1, 3.5 GPF (13.2 LPF)



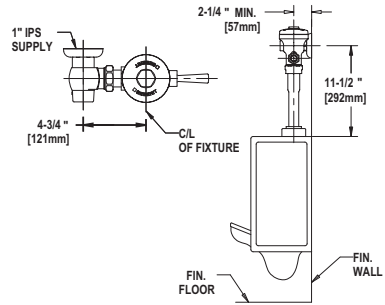
MODEL 117.722.21.1, 1.6 GPF (6.0 LPF)  
MODEL 117.723.21.1, 3.5 GPF (13.2 LPF)



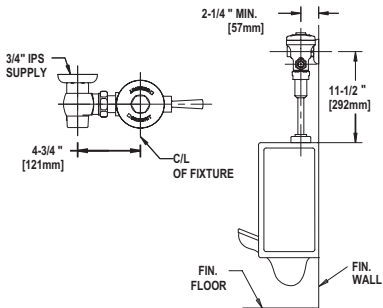
MODEL 117.724.21.1, 1.6 GPF (6.0 LPF)  
MODEL 117.725.21.1, 3.5 GPF (13.2 LPF)



MODEL 117.701.21.1, 1.0 GPF (3.8 LPF)  
MODEL 117.703.21.1, 1.5 GPF (5.7 LPF)



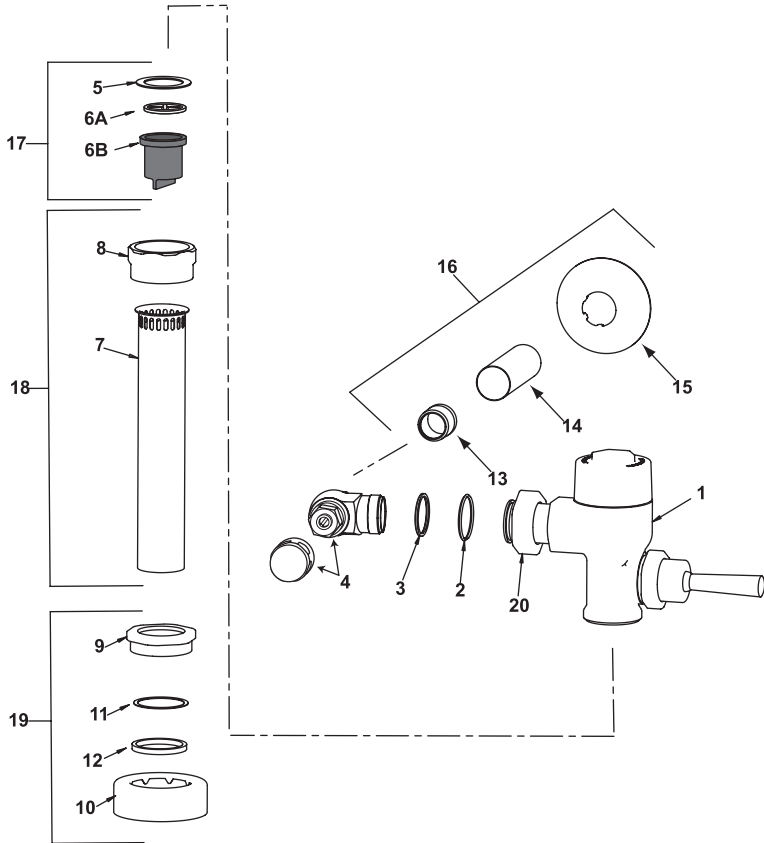
MODEL 117.700.21.1, 1.0 GPF (3.8 LPF)  
MODEL 117.702.21.1, 1.5 GPF (5.7 LPF)



**COMPONENT IDENTIFICATION**

Care should be taken when unpacking shipping carton to avoid damage. If any parts are missing or damaged, contact your local Geberit dealer.

*NOTE: Parts in shaded areas are packaged assembled.*



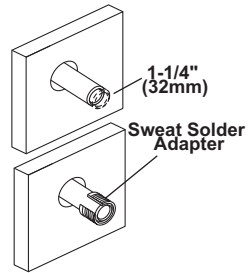
- |                                       |                    |                                     |
|---------------------------------------|--------------------|-------------------------------------|
| 1. Valve Assembly                     | 7. Spud Tube       | 15. Escutcheon                      |
| 2. Retaining Ring, Inlet              | 8. Nut, Upper Spud | 16. Sweat Solder Kit                |
| 3. O-Ring                             | 9. Nut, Lower Spud | 17. Vacuum Breaker Kit              |
| 4. Stop Valve, w/Vandal Resistant Cap | 10. Escutcheon     | 18. Spud Tube Assembly              |
| 5. Washer, Slip                       | 11. Slip Washer    | 19. Spud Escutcheon Kit             |
| 6A. Diffuser Plate                    | 12. Rubber Seal    | 20. Union Nut, Tailpiece/Stop Valve |
| 6B. Vacuum Breaker                    | 13. Adapter        |                                     |
|                                       | 14. Sleeve         |                                     |

**INSTALLATION**

**1 Installing Sweat Solder Adapter Kit**

*NOTE: If supply pipe is equipped with threaded ends, skip this section.*

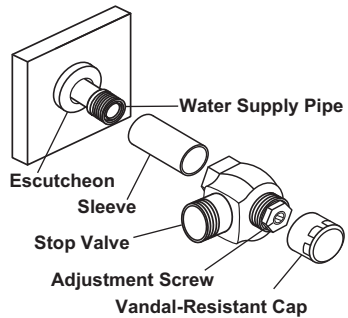
1. Turn off water supply.
2. Measure distance from finished wall to centerline of fixture spud tube.
3. Cut water supply pipe 1-1/4" (32mm) shorter than this measurement. Chamfer the O.D. and I.D. of the water supply pipe end.
4. Slide sweat solder adapter onto water supply pipe until end rests against shoulder of adapter. Sweat solder the adapter to water supply pipe.



**2 Installing Stop Valve**

1. Turn off water supply. If replacing an existing valve, trip the valve to discharge any water and remove the valve.
2. Install the escutcheon, sleeve and stop valve to the water outlet pipe in the desired position.
3. Tighten valve.

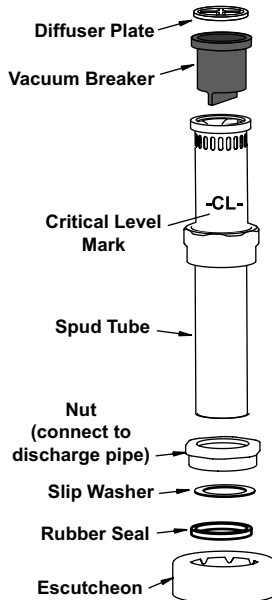
*NOTE: Do not install vandal-resistant cap until completing Step 7 - Adjusting for Minimum Flushing Noise.*



**3 Installing Spud Tube/Vacuum Breaker Assembly**

1. Insert the diffuser plate into the vacuum breaker.
2. Insert the vacuum breaker assembly into the spud tube.
3. Ensure upper spud nut is in place on spud tube. Connect the spud tube assembly to the discharge pipe using the escutcheon, slip washer, rubber seal and nut.
4. Tighten nut to discharge pipe.

*NOTE: Install tube with critical level (-CL-) mark 6" above flood rim of fixture.*



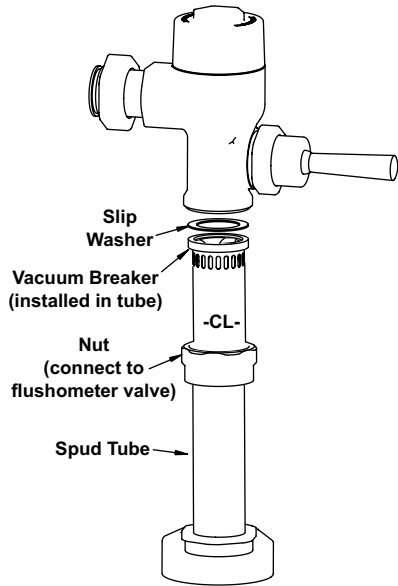
**4 Installing Flushometer Valve**

**⚠ Flush all the water supply lines before making connections.**

1. Slip flushometer valve tailpiece into stop valve. For Vortex Max models, make sure the filter is installed between the stop valve and the tailpiece.
2. Connect the flushometer valve to the spud tube/vacuum breaker assembly.
3. Hand tighten the nut connecting spud tube to flushometer valve. If further tightening is required, turn nut an additional 1/4 turn maximum.

*NOTE: The rubber gasket requires only hand tightened pressure to seal properly.*

**⚠ Do not use Teflon tape or pipe compound on threads when connecting spud tube to flushometer valve.**



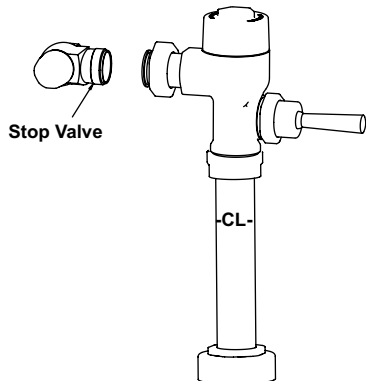
**5 Connecting Flushometer Valve To Stop Valve**

Fully tighten tailpiece nut to stop valve.

*NOTE: Rough-in adjustability between 4-1/4" and 5-1/4" (center-to-center) is achieved with slip joint between stop valve and flushometer valve. At 4-1/4" tailpiece will be fully engaged into stop valve. If O-ring is not sufficiently engaged and/or rough-in dimension exceeds 5-1/4" center-to-center, a tailpiece extension will be required. See your Geberit dealer.*

**⚠ At maximum rough-in adjustability, O-ring must be sufficiently engaged into stop valve to maintain seal.**

**IMPORTANT! Properly tightening this nut ensures tailpiece maintains seal with stop valve.**

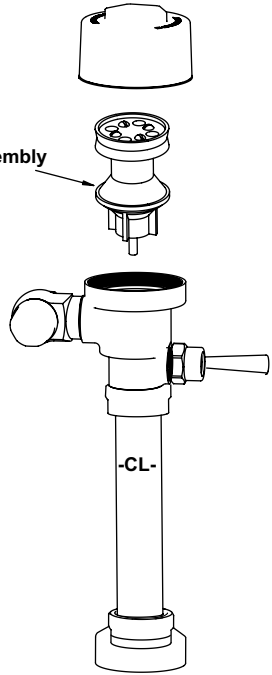


**6 Flushing Supply Lines**

After valve(s) are connected to fixture(s) and water pressure is established, flush the water lines to remove any debris.

1. Remove the valve cap from the valve using a smooth-jawed adjustable wrench or Chicago Faucet Quatern wrench.
2. Remove the piston assembly, then reinstall valve cap.
3. Open stop valve allowing the water to run and flush the lines.
4. Close stop valve.
5. Remove cap and reinstall piston assembly, then reinstall cap and tighten. Use of a smooth-jawed adjustable wrench or Chicago Faucet Quatern wrench ensures that the chrome will not be damaged at the hex points.

Piston Assembly

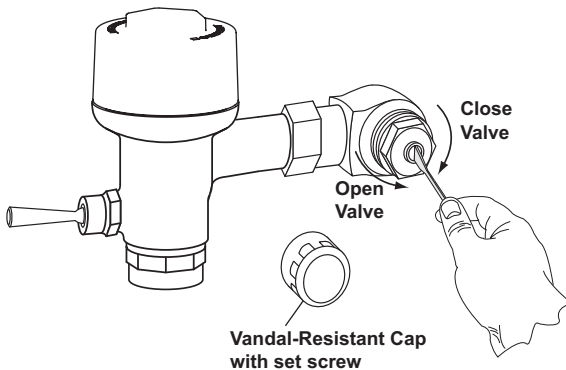


**⚠ Do not use Teflon tape or pipe compound on threads when installing valve cover or valve could become clogged and/or damaged.**

**7 Adjusting for Minimum Flushing Noise**

1. Turn the adjusting screw fully counterclockwise to open valve.
2. Trip the valve, and with water flushing, slowly turn the adjusting screw clockwise until water noise is hushed.
3. Install vandal-resistant cap. Tighten set screw to ensure cap remains tight.

*NOTE: If water pressure is low, optimum setting will be near wide open position. If water pressure is high, optimum setting will be near closed position.*



**SERVICE PROCEDURES****Servicing the Valve**

1. Shut off water at control stop. Trip valve to release water pressure.
2. Remove cover assembly by turning counterclockwise using a smooth-jawed adjustable wrench or Chicago Faucet Quatern wrench. Inspect cover parts and replace any that appear worn or damaged.
3. Inspect piston assembly and replace if worn or damaged.
4. Reverse steps 1-3 to reassemble.

**Servicing the Vacuum Breaker**

1. Shut off water at control stop. Trip valve to release water pressure.
2. Using a smooth-jawed adjustable wrench or Chicago Faucet Quatern wrench, loosen union nut at vacuum breaker and slip down. Loosen union nut at stop valve and remove flushometer valve.
3. Lift out the vacuum breaker assembly and replace if worn or damaged.
4. Reverse steps 1-3 to reassemble. Tighten spud tube union nut hand tight only, or 1/4 turn with a wrench if necessary.

**Servicing the Handle**

1. Shut off water at control stop. Trip valve to release water pressure.
2. Using a smooth-jawed adjustable wrench or Chicago Faucet Quatern wrench, unscrew the handle nut and remove handle assembly.
3. Inspect operating stem for wear. If operating stem shows signs of wear, replace handle assembly.
4. Reverse steps 1-3 to reassemble.

**Care of Chrome Plating**

The life of chrome plate depends directly on the amount and type of maintenance provided. All chrome parts should be washed with a liberal amount of clear water and wiped dry with a clean cloth at least once a week. Valves subject to heavy traffic or aggressive atmospheres will benefit from more frequent cleaning. Uric acid and its fumes are harmful and will blacken and destroy chrome plate if left undisturbed for a period of time.

**⚠ Caution should be taken to ensure that no paste or powder cleaners are applied to chrome. Under no circumstances should bowl or urinal cleaners (which are acid solutions) be allowed to contact or spatter chrome plate.**

**TROUBLESHOOTING**

<b>Problem</b>	<b>Check</b>	<b>Possible Solution</b>
Valve will not activate.	Control stop is shut.	Fully open control stop.
	Handle assembly is worn.	Replace handle assembly.
Valve starts flushing but closes immediately.	Piston assembly is damaged.	Replace piston assembly.
	Handle assembly is worn.	Replace handle assembly.
Valve gives too short or too long a flush.	Handle assembly is worn.	Replace handle assembly.
Valve continues to run full force or continues to run only slightly.	Foreign object blocking closing action.	Clean piston assembly.
	Water pressure and/or volume is insufficient to fill upper chamber of valve and causes valve to close.	Increase pressure and/or volume. If multiple valves are running simultaneously, pressure may be increased by shutting off all control stops, then opening them up one at a time.
Water splashes bowl.	Water pressure at the fixture is in excess of the factory set fixture limit.	Install a pressure reducing valve in the supply line. Failing this, reduce the water volume flowing through the flush valve by partially closing the control stop.
Valve will not pass enough water to satisfactorily syphon bowl.	Control stop not completely open.	Open control stop wide.
	Insufficient volume of water is being supplied to valve due to low pressure or undersized piping, or both.	Convert valve to a simple elbow by completely removing piston assembly from flush valve, replacing cover and flushing valve,. If adequate volume cannot be attained, water pressure and/or pipe size must be increased.
Water goes off by itself.	Water in upper chamber of valve has been siphoned out by demand from lower levels. When pressure is restored, valve flushes automatically.	Consider increasing water pressure or replacing piping, since system is in critical condition.
Flushing action is not quiet enough.	High pressure is causing abnormal noise in water supply system.	Install pressure reducing valve in water supply line.

<b>Problem</b>	<b>Check</b>	<b>Possible Solution</b>
Flushing action is not quiet enough (continued).	Localized roaring noise of fixture may be controlling factor.	Isolate fixture noise to determine source of problem. If fixture is noisy, install quiet action bowl.
Valve leaks at handle.	Handle assembly is worn.	Replace handle assembly.
Water leaks from air vents of vacuum breaker.	Vacuum breaker has ruptured from fatigue.	Replace vacuum breaker.
	Vacuum breaker is being subjected to excessive back pressure by restrictive urinal or water closet.	Open up flow control on urinal if equipped. Also, flow rate at control stop may be reduced. If condition persists, contact fixture manufacturer.

**GEBERIT WARRANTY****TERMS AND CONDITIONS**

**PRICES** - Prices quoted herein are subject to change without notice and all orders are accepted subject to prices prevailing at time of order entry.

**TERMS OF PAYMENT** - Terms are 2% 45 days 60 net. Cash discounts must be calculated on the total amount of the invoice, before transportation charges and any applicable taxes. A 1-1/2% per month service charge will be added to all past due invoices. Annual rate of 18%.

**TAX NOTICE** - Any manufacturers' or sales tax applicable thereto will be added to the prices and terms herein contained.

**CREDIT APPROVAL** - All orders are subject to credit approval by the CHICAGO FAUCET COMPANY'S Credit Department prior to acceptance of the order. Orders may be refused, delivery may be withheld or shipments stopped in transit on accepted orders without any liability on the Company's part, if, in its sole opinion, the buyer's ability to pay for the merchandise on the terms and conditions contained herein is in doubt. All New Accounts must submit a \$500.00 net minimum order with credit and bank references.

**SHIPPING AND HANDLING** - All sales are F.O.B., shipping point. The Company will allow full freight at the prevailing CWT rate on shipments of Company's products with a net invoice value of \$1,500.00 or 24 pieces, \* when shipments are within the continental United States and have as destination the buyer's usual business address or designated job location. Freight allowed on shipments to Alaska shall be calculated F.A.S., Seattle, Washington. The use of the term "F.A.S., Seattle, Washington" in this paragraph shall not be deemed to impose any risk or obligation concerning the goods or the shipment thereof upon the Company after the delivery of the goods to the initial carrier. Under no circumstances will a direct C.O.D. shipment be made to the wholesaler's customer.

\* Original P.O. must meet FFA terms. Subsequent additions will not be considered towards freight allowance.

Routing of shipments shall be determined at the sole discretion of the Company.

**DELIVERY** - Delivery to the initial carrier shall constitute delivery to the buyer. CHICAGO FAUCET COMPANY'S responsibility, insofar as transportation risks are concerned, ceases upon delivery in good order to such carrier, and all goods are shipped at the buyer's risk. The buyer is requested to check each incoming shipment carefully before acknowledging receipt from the carrier. If goods are visibly damaged the buyer should insist that written confirmation of the damage be noted on the freight bill by the carrier. If concealed damage is noted after unpacking, the buyer should immediately notify the carrier involved and obtain verification of the damage from the carrier.

Claims for shortages in orders will not be considered unless presented to the Company within 30 days after receipt of goods by the buyer.

**DAMAGE** - All claims for damage in transit, shortage, or nondelivery must be filed against the carrier by the buyer.

CHICAGO FAUCET COMPANY will not be responsible for delay in shipment of goods, or for any damages suffered by reasons thereof, when such delay is occasioned by accident, fire, flood, embargo, strike, war, labor stoppages, inadequate transportation, shortage of materials, delay or default on the part of vendors, government regulations or any other cause beyond its control.

**CHICAGO FAUCETS BRAND PRODUCTS ARE SUBJECT TO THE FOLLOWING WARRANTIES:**

**LIMITED WARRANTY** - The CHICAGO FAUCET COMPANY ("Chicago Faucets") extends to the original consumer the following warranties for Genuine Chicago Faucets manufactured products and components, or other components under the Chicago Faucets Warranties, (collectively, the "Products") used in commercial or residential applications.

**LIFETIME FAUCET WARRANTY** - The "Faucet", defined as any metal cast, forged, stamped or formed portion of the Product, not including electronic or moving parts or water restricting components, or other components covered under other Chicago Faucet warranties, is warranted against manufacturing defects for the life of the Product.

**FIVE YEAR CARTRIDGE WARRANTY - COMMERCIAL** - The "Cartridge", defined as the metal portion of any Product typically referred to by the product numbers containing 1-099, 1-100, 1-310, 377X, 217X and 274X, excluding any rubber or plastic components, is warranted against manufacturing

defects for a period of five (5) years from the date of Product purchase. All Cartridges included in Chicago Faucet's Single Control or Shower Products are also warranted against manufacturing defects for a period of five (5) years from the date of Product purchase.

**LIFETIME CARTRIDGE WARRANTY - RESIDENTIAL** - For products used in Residential applications, the "Cartridge", as described above, is warranted for the lifetime of the faucet.

**ONE-YEAR FINISH WARRANTY - COMMERCIAL** - For Products used in commercial applications, the finish of the Product is warranted against manufacturing defects for a period of one-year from the date of Product purchase. PVD finishes installed in public or commercial areas carry a one-year warranty from date of installation.

**ONE-YEAR FINISH WARRANTY - RESIDENTIAL** - PVD finishes installed in public or commercial areas carry a one-year warranty from date of installation.

**FIVE-YEAR FINISH WARRANTY - RESIDENTIAL** - For Products used in residential applications, the finish of the Product is warranted against manufacturing defects for a period of five (5) years from the date of Product purchase. ForeverShine™ finishes installed in residential-use applications are warranted not to corrode, tarnish or discolor for the life of the product.

**ELECTRONIC FAUCETS MECHANICALS WARRANTY** - Are warranted for 5 years from the date of installation.

**ELECTRONIC FAUCETS FINISHES WARRANTY** - Are warranted for one-year from the date of installation.

**ELECTRONIC FAUCETS ELECTRONICS AND SOLENOID WARRANTY** - Are warranted for one-year from the date of installation.

**OTHER WARRANTIES** - All other Products not covered above are warranted against manufacturing defects for a period of one (1) year from the date of Product purchase.

**GEBERIT BRAND PRODUCTS ARE SUBJECT TO THE FOLLOWING WARRANTIES:**

**KITCHEN ACCESSORIES** shall be free from defective material and workmanship for a period of 1-year from date of installation.

**BATH WASTE and OVERFLOW** products carry a limited lifetime warranty on the material and mechanism

Tessera™ concealed tank & carrier units carry a 10-year limited warranty on the flushing mechanisms and limited lifetime warranty on the tank and carrier.

**PLATED FINISHES** carry a one-year limited warranty from date of installation with the exception of those finishes designated as ForeverShine™.

ForeverShine™ finishes installed in residential-use applications are warranted not to corrode, tarnish or discolor for the life of the product.

ForeverShine™ finishes installed in commercial use applications are warranted for a period of one-year from date of installation.

**ELECTRONIC FAUCETS, FLUSHOMETERS AND METERING MECHANICALS WARRANTY** - Are warranted for 5 years from the date of installation.

**ELECTRONIC FAUCETS FINISHES WARRANTY** - Are warranted for one-year from the date of installation.

**ELECTRONIC FAUCETS ELECTRONICS AND SOLENOID WARRANTY** - Electronics are warranted for 1 year from the date of installation, solenoid is warranted for 3 years from date of installation.

**PRESSURE ASSIST TOILET SYSTEMS** - Are warranted for 5 years from date of installation (pressure vessel), limited lifetime for the carrier plus a one-year warranty on toilet bowl and flush actuator plate.

**MANUAL FLUSHOMETER VALVE PRODUCTS** - Are warranted to be free from defects in material and workmanship for a period of three (3) years from the date of purchase when properly installed and serviced.

Chicago Faucets will either replace or repair the defective equipment or refund the purchase price, at its option, if an inspection by Chicago Faucets or its authorized representative discloses any manufacturing defects in material or workmanship during this period. These provisions do not include the bat-

tery shipped with the Electronic Products. Chicago Faucets will not be liable for any labor or other expenses not specifically stated above and disclaim any responsibility for incidental or consequential damages.

Warranties implied by law, including that of merchantability are expressly limited to the period of this warranty. This limitation and exclusion does not apply in those states that do not allow limitations on the duration of implied warranties. Or the exclusion may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary, from state to state.

**RETURNED GOODS** - Merchandise may not be returned to the Company for credit unless the buyer obtains prior written approval from the Company. Such approval will be granted only when material to be returned is a Standard or MTO product and is listed in the current price sheets. Credit will be issued on all material returned by permission, at the prevailing price at time of purchase, less a handling charge of up to 35%. No credit whatever will be allowed on products designated as Custom (Custom products are products not designated as Standard or MTO) which have been shipped according to customers' specification. Material, which is marred or damaged, will not be accepted. All transportation costs for returned goods must be paid by the buyer.

**ORDER MODIFICATION/CANCELLATION** - Orders for Standard and MTO products can be modified or cancelled up to the time the order is being processed for shipment. A Chicago Faucets customer service representative must confirm the status of order to be cancelled or changed in order to avoid any restocking fees or charges. Changes to the order can potentially extend the acknowledged availability date. Once entered, Custom products are non-cancelable, and will be shipped and billed to the customer.

The Company reserves the right to make reasonable changes of any kind in its products and their packaging without notice.

**MINIMUM CHARGE** - No invoice will be made for less than \$100.00 (One Hundred Dollars Net) on faucets, valves and fittings or repair parts.

*NOTE: Possession of this price sheet by any person is not to be construed as an offer to sell him or anyone else, the goods listed herein at prices stated.*





2100 Clearwater Drive, Des Plaines, IL 60018-5999



**Geberit Manufacturing Division**  
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