

# Retrofit MVP™ Metering Cartridges

## Installation Instructions

Installation Instructions applies for exposed parts for conversion of existing lavatory fitting to MVP™ Metering Valve

### Overview

The Chicago Faucets MVP™ metering cartridge can be installed in place of standard manual operating cartridges. One-touch operation saves water every time the faucet is used. The run-time can be adjusted to meet conservation requirements or user preference.

### Notice to the Installer

- Read this entire instruction sheet before installing to ensure proper installation.
- Installation must comply with local codes and ordinances.
- Clean chrome parts with mild soap and water only - no cleansers or acids.

Pressurized plumbing fixtures 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 surface.

NOTE: The information in this manual is subject to change without notice.

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

NOTE: Before installation, turn off water supplies to existing faucet and remove faucet if replacing. Clean faucet basin and clear away debris. Flush all supply lines before connecting to faucet. Failure to do so can result in debris clogging the inlets and/or cartridges.

NOTE: This fitting has been set to comply with the U.S. National Energy Policy Act (1992) which requires metering faucets to flow .25 gallons per cycle maximum at 80 PSI. Products conform to applicable ADA Requirements (See timing adjustments).

### Installation Instructions

1. Turn off water at the supply stop(s).
2. Remove existing handles and units. Follow the chart on the first page (Figure 1) to insure that the correct parts are being used.
3. Flush supply lines to remove chips and dirt which can become lodged in the seat washer and cause the faucet to run on.
4. Inspect the seating surface inside the body and clean thoroughly. If seat is damaged (pitted or nicked) or if heavy lime build-up has occurred, contact your nearest Chicago Faucet representative for assistance. Failure to clean up old seating surfaces can damage the new MVP™ cartridge and cause a dripping or run-on situation. (Figure 2)

**Troubleshooting:** Accumulation of lime and/or dirt in the cartridge can result in either short or excessively long cycles. If either occurs, remove cartridge and wash with soap and water or a mild solution of vinegar and water. If continued problems are experienced, contact your local representative for assistance.

Figure 1

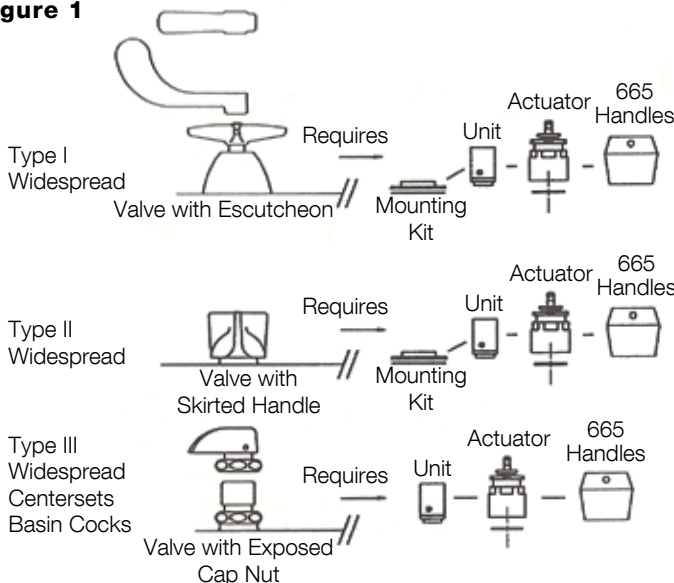


Figure 2

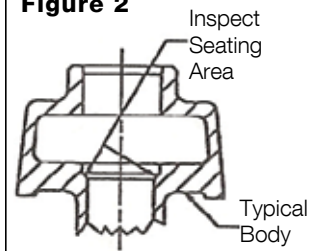
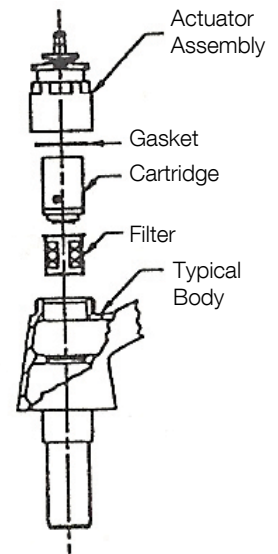


Figure 3



Mounting - Fit Part #668-200K	Retrofit Fit (Unit, Actuator & Handle) One Set Per Kit		
One Set Per Kit Chrome Plated Flange #408-004 & Rubber Washer #739-056	Handles	Index	Kit No.
This kit is required when converting Type I & II to MVP metering units.	665	Hot	665 RKH
		Cold	665 RKC
		Push	665 RKP

For additional technical assistance, call 800/TEC-TRUE (800-832-8783) or visit our website at [chicagofaucets.com](http://chicagofaucets.com).

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(continued)

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Geberit Group

5. Insert the filter into the body and make sure it is completely down and in place against the body seat. Then insert the cartridge into the body. Make sure the cartridge is also completely down and in place against the body seat. (Figure 3)

NOTE: This Cartridge is designed to be used with the large filter enclosed. It is possible when retrofitting existing fittings that this filter cannot be used (especially in type I and II fittings shown.) If no water flow occurs after Step 7, shut the stop off and disassemble fitting to remove the larger drop-in style filter. Replace it as shown with the small filter enclosed.

IMPORTANT: Never use both filters together on the same fitting.

6. Place the white cap sealing gasket into the actuator assembly and screw the actuator assembly onto the body. Tighten the actuator assembly onto the body to approximately 20 ft. lbs., (hand tighten and give the actuator assembly a 1/2 to 1 full turn with a wrench). (Figure 3)
7. Turn the water back on at the supply stop(s).

NOTE: If leak occurs at cap gasket, remove gasket and inspect it for damage and replace if necessary. If the gasket is in good condition, inspect the body surface for scratches or nicks and clean up the surface by reaming if necessary.

**Timing Adjustment:** These instructions are for the user to adjust the faucet to provide a flow rate to meet the American Disability Act (ADA) regulations which require 10 seconds running time for the water flow. For ADA compliance follow these procedures:

NOTE: Timing must be checked with the handle in place.

- A. Purge the valve of air by pushing it completely open 4-8 times rapidly and then check the timing cycle.
  - B. Remove the handle with a 3/32" hex wrench.
  - C. Time is changed by rotating plastic serrated adjustment nut with a pair of pliers. Raising nut (counter clockwise) shortens time, lowering nut (clockwise) lengthens time. (Figure 4)
  - D. After each adjustment, replace handle and check cycle time.
  - E. Once cycle time is satisfactory, lock handle in place making sure set screw is securely fastened on groove in stem. (Figure 5) If a type 665 handle is used, remember to insert the colored index button.
- NOTE: A variation from cycle to cycle should be expected. It is best to wait until hot water is available and the building is in use before making final adjustments. Some new installations may produce slightly closing noise. This is normally the result of air trapped in the unit and the noise will dissipate over time.

Figure 4

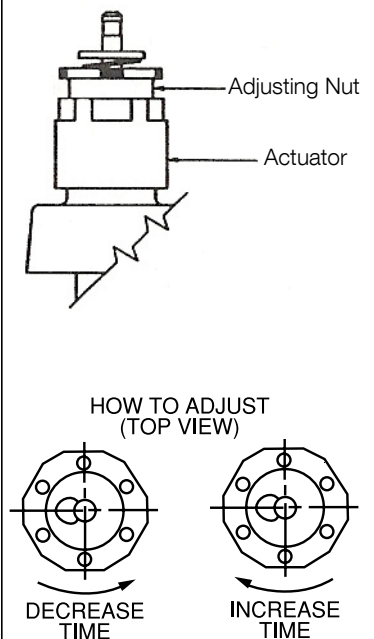
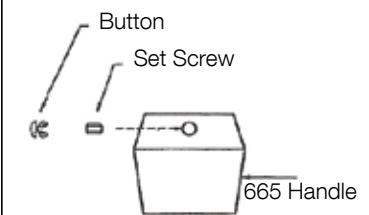


Figure 5



### Care and Maintenance

All Chicago Faucets fittings are designed and engineered to meet or exceed industry performance standards. Care should be taken when cleaning this product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap with warm water for cleaning and protecting the surface of Chicago Faucets fittings.

*For additional technical assistance, call 800/TEC-TRUE (800-832-8783) or visit our website at [chicagofaucets.com](http://chicagofaucets.com).*

### CHICAGO FAUCETS LIMITED WARRANTY

**TO WHOM DOES THIS WARRANTY APPLY?** — The Company extends the following limited warranty to the original user only.

**WHAT DOES THIS WARRANTY COVER AND HOW LONG DOES IT LAST?**

This warranty covers the following Commercial Products:

**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 other products separately covered by this Limited Warranty or water restricting components or other components, is warranted against material manufacturing defects for the life of the Product.

**FIVE YEAR FAUCET WARRANTY** — Certain Products and portions of the Product are warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase. Products warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase are referred to by the product numbers 42X, 43X, 15XX and E-Tronic™ - 4X, 5X, 6X, 7X, 8X and 9X. All zinc die cast portions of Product are warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase.

**THREE YEAR ELECTRONICS WARRANTY** — Electronic components, including the solenoid, are warranted for three (3) years from the date of installation.

**FIVE YEAR CARTRIDGE WARRANTY** — 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 material manufacturing defects for a period of five (5) years from the date of Product purchase. All Cartridges included in the Company's Single Control or Shower Products also are warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase.

**ONE YEAR FINISH WARRANTY - COMMERCIAL** — For Products used in commercial applications, the finish of the Product is warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase.

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

Other restrictions and limitations apply. For complete warranty details, call Chicago Faucets Customer Service at 847-803-5000 or visit [chicagofaucets.com](http://chicagofaucets.com).

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