



QDV

Models 8423, 8425, 8433, 8435

Units with remote gun and bottle activation

- Package Should Contain:**
1. Proportioner unit.
 2. Chemical inlet tubing.
 3. In-line check valves, foot strainers, & weights.
 4. Discharge tubes for eductors.
 5. Metering tip kit.
 6. Mounting anchor kit.
 7. Instruction sheet.

THANK YOU FOR YOUR INTEREST IN OUR PRODUCTS

Please use this equipment carefully and observe all warnings and cautions.

*****NOTE*****

WEAR

protective clothing and eyewear when dispensing chemicals or other materials or when working in the vicinity of all chemicals, filling or emptying equipment, or changing metering tips.

ALWAYS

observe safety and handling instructions of the chemical manufacturer.

direct discharge away from you or other persons or into approved containers.

dispense cleaners and chemicals in accordance with manufacturer's instructions. Exercise **CAUTION** when maintaining your equipment.

reassemble equipment according to instruction procedures. Be sure all components are firmly screwed or latched into position.

KEEP

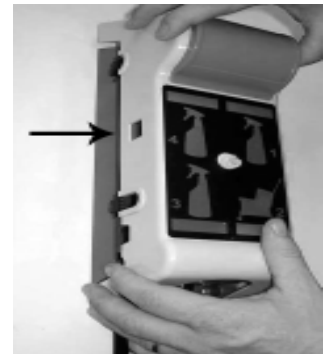
equipment clean to maintain proper operation.

Installation and Operation:

1. Remove select knob by pulling straight off.



2. Remove dispenser cover by depressing tabs on each side.



3. Use the cabinet back as a template to mark the proper spacing of the (3) mounting screw holes.

4. Drill holes for (3) wall anchors with a 9/16" drill bit, install mounting anchors, and then screws in top (2) anchors.

5. Slide key holes in cabinet back over screw heads, tighten screws, then install bottom screw.



For Units with Drip Tray:

6. Install drip tray to bottom of cabinet back.



7. Mark (2) mounting holes, then remove drip tray.

8. Drill holes for (2) wall anchors with 9/16" drill bit, and install mounting anchors.

9. Reinstall drip tray to bottom of cabinet back. If your dispenser is equipped with a remote discharge tube, route remote discharge tube behind drip tray to come out below the center of drip tray. Install (2) mounting screws to secure drip tray.

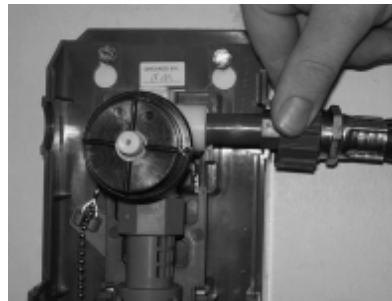


10. Additional tubing is provided for drain hole in drip tray. Drill 5/32" hole through stem from the bottom side of drip tray.





11. Install low flow (1.0 GPM) discharge tube.



12. Connect water supply hose of at least 1/2" ID to water inlet swivel. (minimum 25 PSI pressure, with water running, is required for proper operation.)

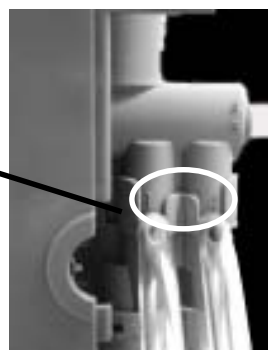
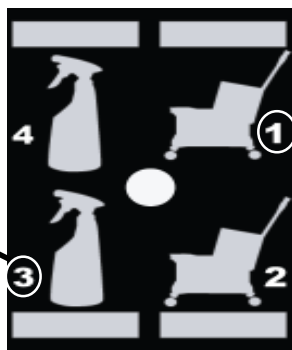
13. Refer to tip selection guide (page 4) and select desired metering tips for product concentrate inlets.

Grey inlet barb = 1.0 GPM, Yellow inlet barb = 3.5 GPM.

Push each tip firmly into hose barb. The number on barrel of QDV valve corresponds to the product selector label on cover of unit. (See product selector diagram below.)

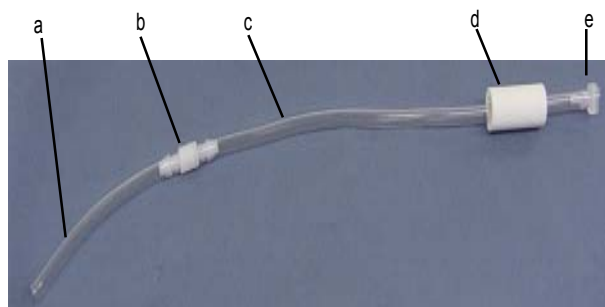
NOTE: A CLEAR TIP IS PROVIDED AND MUST BE INSTALLED IN ANY UNUSED INLET BARB FOR UNIT TO FUNCTION PROPERLY.

Product Selector Diagram:



14. Install chemical inlet tubing. Install 5.5" piece of tubing (a) on inlet barb. Install in-line check valve (b) with arrow pointing away from the chemical container. Cut a piece of tubing (c) for each product long enough to run from the inlet barb to the bottom of the chemical container. Slide ceramic weight (d) over one end of tube and insert foot strainer (e) into the same end of the tube.

NOTE: REMEMBER TO CHECK STRAINERS PERIODICALLY FOR CLOGGING: CLEAN IF NECESSARY.



15. Reinstall cover and select knob.



16. Turn on water supply. Purge air from system by briefly depressing the flow activating devices.

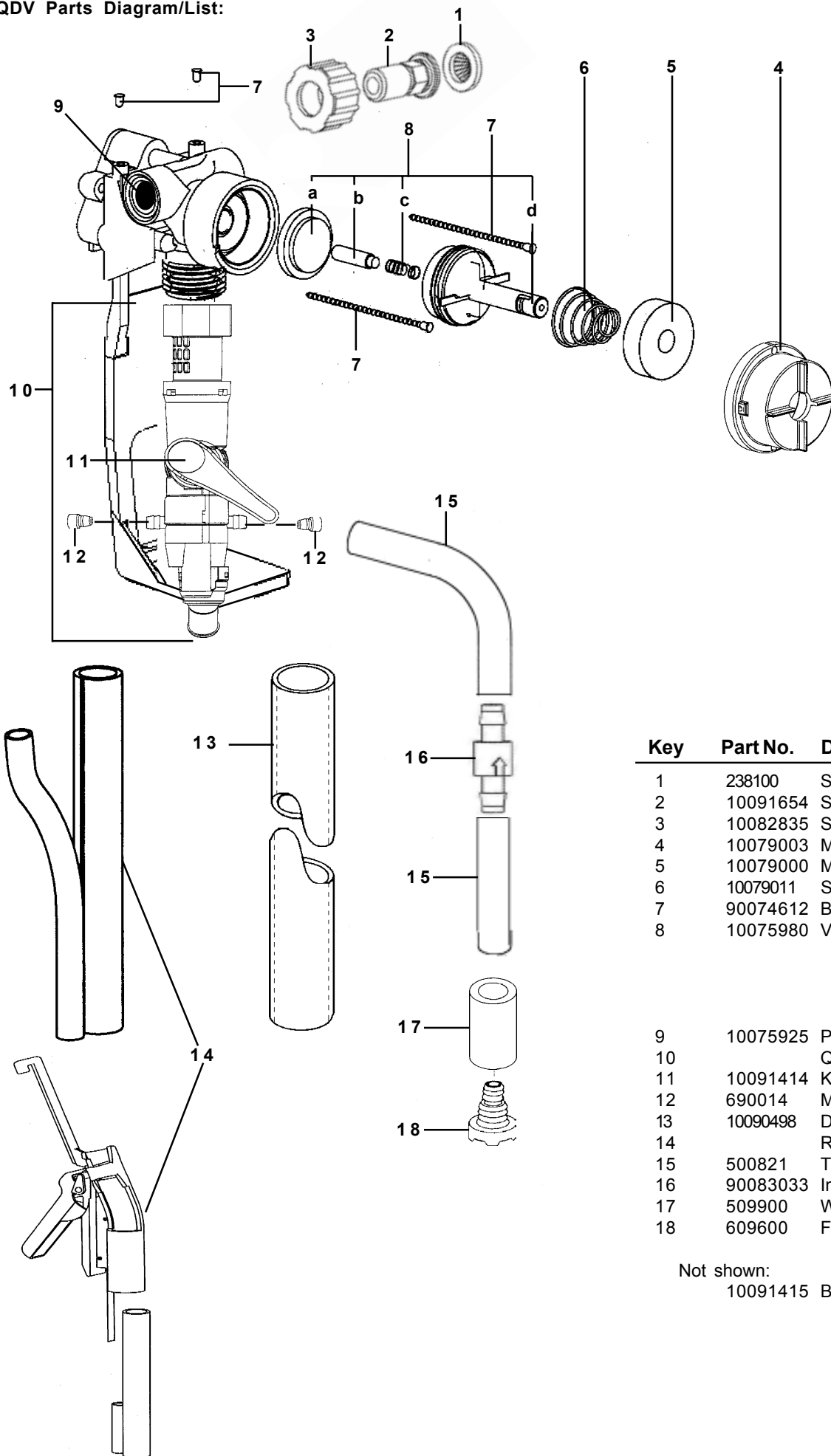


17. For bottle activated units, insert a spray bottle over the short discharge tube and lift lever. To stop flow, lower bottle from dispenser.



18. For units with remote bucket fill activation, hold and depress lever of remote gun. To stop flow, release lever. The lever can be locked on by flipping clip to hold lever. **CAUTION: LEVER MUST BE MANUALLY UNLOCKED TO STOP FLOW. OVERFLOW WILL RESULT IF LEFT LOCKED IN OPEN POSITION.**

QDV Parts Diagram/List:



Key	Part No.	Description
1	238100	Strainerwasher
2	10091654	Swivel stem (molded)
3	10082835	Swivel collar (molded)
4	10079003	Magnet cover w/chain slot
5	10079000	Magnet
6	10079011	Spring
7	90074612	Ball chain w/sleeve
8	10075980	Valve parts kit a. diaphragm b. armature c. spring d. valve bonnet
9	10075925	Pipe plug, 3/8"
10		QDV assy
11	10091414	Knob assy, QDV
12	690014	Metering tip kit
13	10090498	Discharge tube, 1/2"x8" (1 GPM)
14		Remote fill discharge assy (3.5 GPM)
15	500821	Tubing 1/4" x 21'
16	90083033	In-line check valve, EPDM
17	509900	Weight
18	609600	Foot strainer

Not shown:
10091415 Bottle pusher extension

Metering Tip Selection:

The final concentration of the dispensed solution is related to both, the size of the metering tip opening, and the viscosity of the liquid being siphoned. For water-thin products, the chart can be used as a guideline. Because dilution can vary with water temperature and pressure, and if the product is noticeably thicker than water, dilution rates shown should be viewed as approximate.

APPROXIMATE DILUTIONS AT 40 PSI FOR WATER-THIN PRODUCTS (1.0 CP)										
Tip Color	Orifice Size	Std. Drill Number	Ratio(perEductorFlow)		Tip Color	Orifice Size	Std. Drill Number	Ratio(perEductorFlow)		
			1.0 GPM	3.5 GPM				1.0 GPM	3.5 GPM	
No Tip	.187	(3/16)	3:1	3.5:1	Green	.028	(70)	16:1	45:1	
Grey	.128	(30)	3:1	4:1	Orange	.025	(72)	20:1	56:1	
Black	.098	(40)	3:1	4:1	Brown	.023	(74)	24:1	64:1	
Beige	.070	(50)	4:1	8:1	Yellow	.020	(76)	32:1	90:1	
Red	.052	(55)	5:1	14:1	Aqua	.018	(77)	38:1	128:1	
White	.043	(57)	7:1	20:1	Purple	.014	(79)	64:1	180:1	
Blue	.040	(60)	8:1	24:1	Pink	.010	(87)	128:1	350:1	
Tan	.035	(65)	10:1	30:1						

Troubleshooting Chart:

Problem	Cause	Solution
1. Unit won't dispense	<ul style="list-style-type: none"> a. No water b. Magnetic valve not functioning c. Excessive water pressure d. Eductor clogged e. Low flow mechanism failure f. High flow mechanism out of adjustment g. High flow mechanism broken h. Clogged water inlet strainer 	<ul style="list-style-type: none"> a. Open water supply b. Install valve parts kit c. Install regulator if flowing water pressure exceeds 60 PSI d. Clean (descale) or replace e. Install new parts f. Adjust cable tension by loosening lock nut and increasing tension on cable. Retighten lock nut g. Cable extremely loose/broken. Order replacement gun/cable assembly h. Disconnect inlet water line and clean strainer
2. No concentrate draw	<ul style="list-style-type: none"> a. Clogged foot strainer b. Metering tip or eductor has scale build-up c. Low water pressure d. Discharge tube not in place (high flow only) e. Concentrate container empty f. Clogged water inlet strainer g. Selector out of position h. Check valve installed backwards i. Air leak in chemical pick-up tube j. Clear plastic tip installed in inlet hose barb 	<ul style="list-style-type: none"> a. Clean or replace b. Clean (descale) or replace c. Minimum 25 PSI (with water running) required to operate unit properly d. Push tube firmly onto eductor discharge hose barb e. Replace with full container f. Disconnect inlet water line and clean strainer g. Assure selector is in position desired h. Confirm arrow on side of check valve is pointed toward eductor i. Put clamp on tube or replace tube if brittle j. Replace with colored metering tip
3. Excess concentrate draw	<ul style="list-style-type: none"> a. Metering tip not in place 	<ul style="list-style-type: none"> a. Press correct tip firmly into barb on product inlet
4. Failure of unit to turn off	<ul style="list-style-type: none"> a. Water valve parts dirty or defective b. Magnet doesn't fully return c. Excessive water pressure d. Mechanism hangs up 	<ul style="list-style-type: none"> a. Clean or replace with valve parts kit b. Make sure magnet moves freely Replace spring if short or weak c. Install regulator if pressure (with water flowing) exceeds 60 PSI d. Be sure bracket is free to move and not broken
5. Excess foaming in discharge	<ul style="list-style-type: none"> a. Air leak in chemical pick-up tube b. Unused concentrate inlet barb not plugged 	<ul style="list-style-type: none"> a. Put clamp on tube or replace tube if brittle b. Insert clear metering tip in unused concentrate inlet barb
6. Solution comes out wrong tube.	<ul style="list-style-type: none"> a. Incorrect tubes connected to inlet ports. 	<ul style="list-style-type: none"> a. Review instructions on matching products with proper inlet stubs