

Avantor™ Performance Materials

100 Matsonford Rd #200

Radnor, PA 19087 USA

Technical Service Department

Toll free 1 855 282 6867, select option 5

Outside U.S. 1 610 573 2600, select option 5

technical.service@avantorsciences.com

Date: March 25, 2024

Re: CYCLE-TAP Dispenser Operating Instructions

The CYCLE-TAP dispenser is a stainless steel solvent dispense unit with a Teflon -lined hose designed for unmeasured manual dispensing of solvent from the CYCLE-TAINER system. The dispenser is available with either a toggle valve for dispensing into laboratory containers, or with a needle connector to dispense into reaction vessels for oxygen or water sensitive applications. The CYCLE-TAP dispenser is available for use only with the CYCLE-TAINER solvent delivery system.

CYCLE-TAP Dispenser with Toggle Valve

The CYCLE-TAP dispenser with the toggle valve is the easiest and safest way to manage solvent needs for customers who routinely dispense unmeasured volumes of solvent into laboratory containers such as graduated cylinders, flasks, beakers, and drums. The thumb operated toggle valve regulates solvent volume simply by pressing and releasing. This fully integrated system helps maintain the CYCLE-TAINER advantages of purity, safety, and waste management.

**Features and Benefits**

- Fully assembled with color-coded Quick-Connect
- Three-way valve for purging to ensure highest purity
- Stainless-steel and Teflon components that are inert to solvents to maintain solvent quality
- Safety armored, Teflon-lined, flexible hose with internal steel braiding that will not kink or puncture

- 4, 10, and 15 foot hose lengths available
- Thumb operated toggle valve with "hold-on" option for easy dispensing
- Integrated hook for hanging the dispenser's outlet

Using the CYCLE-TAP Dispenser with Toggle Valve

With the attached color-coded Quick-Connect, users simply attach the dispenser to the solvent port on their CYCLE-TAINER system, turn the CYCLE-TAINER system solvent valve and CYCLE-TAP valve to the open position and dispense solvent by depressing the toggle lever. Releasing the lever immediately stops solvent flow. The flexible CYCLE-TAP hose allows the user to maneuver the solvent outlet to fill various containers quickly and easily.

Part # Solvent Description

9814-04 Acetone, High Purity Toggle Valve, 4 ft, white
9814-05 Acetone, High Purity Toggle Valve, 10 ft, white
9814-06 Acetone, High Purity Toggle Valve, 15 ft, white
9814-07 Acetonitrile, High Purity Toggle Valve, 4 ft, black
9814-08 Acetonitrile, High Purity Toggle Valve, 10 ft, black
9814-09 Acetonitrile, High Purity Toggle Valve, 15 ft, black
9814-12 All Reagent Grade Toggle Valve, 4 ft, brown
9814-13 All Reagent Grade Toggle Valve, 10 ft, brown
9814-14 All Reagent Grade Toggle Valve, 15 ft, brown
9814-17 Ethyl Acetate, High Purity Toggle Valve, 4 ft, purple
9814-18 Ethyl Acetate, High Purity Toggle Valve, 10 ft, purple
9814-19 Ethyl Acetate, High Purity Toggle Valve, 15 ft, purple
9814-20 Hexanes, High Purity Toggle Valve, 4 ft, yellow
9814-21 Hexanes, High Purity Toggle Valve, 10 ft, yellow
9814-22 Hexanes, High Purity Toggle Valve, 15 ft, yellow
9814-23 Methanol, High Purity Toggle Valve, 4 ft, orange
9814-24 Methanol, High Purity Toggle Valve, 10 ft, orange
9814-25 Methanol, High Purity Toggle Valve, 15 ft, orange
9814-26 DCM (dichloromethane) High Purity Toggle Valve, 4 ft, green
9814-27 DCM, High Purity Toggle Valve, 10 ft, green
9814-28 DCM, High Purity Toggle Valve, 15 ft, green
9814-29 THF, High Purity, Low Water Toggle Valve, 4 ft, blue
9814-30 THF, High Purity, Low Water Toggle Valve, 10 ft, blue
9814-31 THF, High Purity, Low Water Toggle Valve, 15 ft, blue

CYCLE-TAP Dispenser with Needle Connector

The CYCLE-TAP dispenser with the needle connector was specifically designed for chemists performing reactions requiring the highest purity for controlled environments. This set up allows the chemist to dispense solvent directly to the reaction vessel through a septum without the risk of exposure to air. This is especially important in organometallic synthesis where the oxygen and water content are often detrimental to reactions. The needle connector is the ideal method to deliver low water and ultra low water solvents to their points of use.

Features and Benefits

- Fully assembled with color-coded Quick-Connect
- Three-way valve for purging to ensure highest purity
- Stainless-steel and Teflon components that are inert to solvents to maintain solvent quality
- Safety armored, Teflon-lined, flexible hose with internal steel braiding that will not kink or puncture
- 4, 10, and 15 foot hose lengths available
- Thumb operated toggle valve with "hold-on" option for easy dispensing
- Needle connector that fits standard needles

Using the Dispenser with Needle Connector

Attach the CYCLE-TAP dispenser hose to the CYCLE-TAINER system solvent port using the color-coded Quick-Connect. Connect a gas source to the three-way ball valve and attach an appropriate needle to the needle connector. To ensure the highest purity, purge the dispenser with gas by turning the three-way ball valve to the purge position. While purging, insert the needle into the reaction vessel and turn the three-way ball valve to the solvent flow position. After dispensing sufficient volume into the reaction vessel, terminate flow by closing either the three-way ball valve or the CYCLE-TAINER solvent valve.

Part # Solvent Description

9814-10 Acetonitrile, Low Water Needle Valve, 4 ft, black

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9814-11 Acetonitrile, Low Water Needle Valve, 6 ft, black
9814-15 All Reagent Grade Needle Valve, 4 ft, brown
9814-16 All Reagent Grade Needle Valve, 6 ft, brown
9814-32 THF, Ultra Low Water Needle Valve, 4 ft, blue
9814-33 THF, Ultra Low Water Needle Valve, 6 ft, blue
9814-34 Methanol, High Purity Needle Valve, 4 ft, orange
9814-35 DCM, High Purity Needle Valve, 6 ft, green

Revision History

Rev. 0; March 25, 2024 – New Document. No alteration in data.

Prepared by the Avantor
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