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Dissolution Workstation Installation and Setup Instructions

**P/N 70-9049
November 2010
Revision F**

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Installation and Setup

Setting up Your PC

The Dissolution Workstation software requires Microsoft Windows® 2000 or Windows XP® to be installed on your computer. For instructions on installing the operating system, refer to the documentation supplied with Windows®.

Minimum PC Configuration

- Windows® 2000 SP6 or Windows XP® SP1
- 10 GB free hard disk drive space
- 256 MB RAM
- 1024 x 768 pixel display resolution
- 2 USB ports or a USN port and an RS232 port

If the PC is not equipped with a standard serial port, a USB-to-serial converter must be purchased. Varian supports the use of the Edgeport USB-serial converters manufactured by DIGI International.

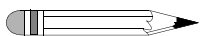
If Varian is installing the Dissolution Workstation software for you, note that the installation of a Windows® operating system is not included as part of the standard instrument installation.

External Interconnecting Cables

The monitor, keyboard, mouse, and printer/plotter are connected to the PC via cables which plug into the back of the PC. Consult your monitor and printer manuals for details of their individual cabling requirements. To make cabling connections for the dissolution equipment, see "Workstation Connections" on page 11.

Software Installation

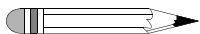
Note



The CD contains all of the requirements for an installation. To complete the installation of the Dissolution Workstation software, you must logon to the PC as an administrator.

To install the Dissolution Workstation software, complete the following steps:

Note



If you are upgrading the software, do not uninstall the previous version. Execute setup.exe to upgrade your installation.

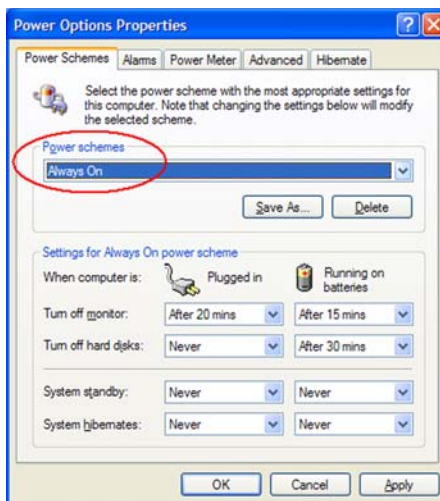
- Step 1. Execute the file **setup.exe** and follow the on-screen prompts.
- Step 2. When asked if you want to install the Microsoft .Net Framework, you *must* click **Yes**.

- Step 3. After the installation has successfully completed, install the license dongle by plugging it into an open USB port on your computer. The Windows™ operating system automatically begins communication with the security dongle and allows you to execute the Dissolution Workstation application.

FIGURE 1. License dongle

- Step 4. In Windows, click **Start > Control Panel > Power Options**. Under Power schemes, select **Always On**.

FIGURE 2. Power Scheme



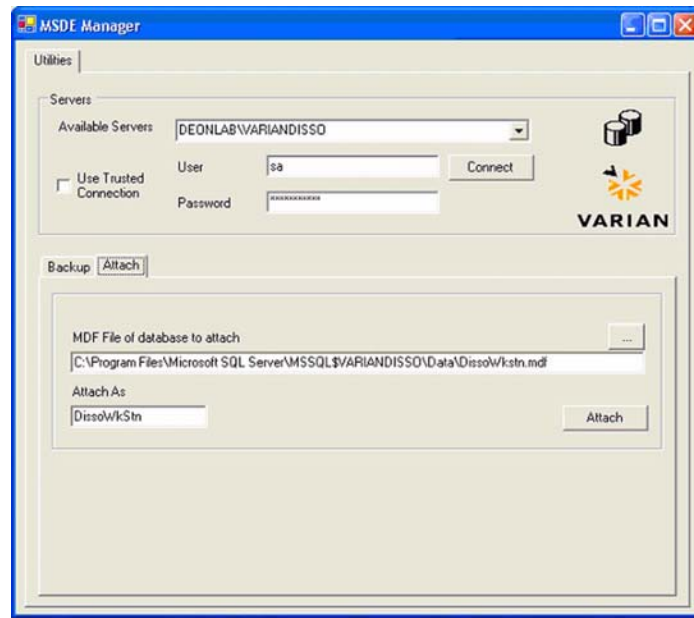
Attaching the Database

Once the software installation is complete, it is necessary to link the Dissolution Workstation software to the database that is installed on the PC as part of the software installation.

To attach the database locally, complete the following steps:

- Step 1. Click **Start > All Programs > Varian > Dissolution > MSDE Manager**. The MSDE Manager screen displays.

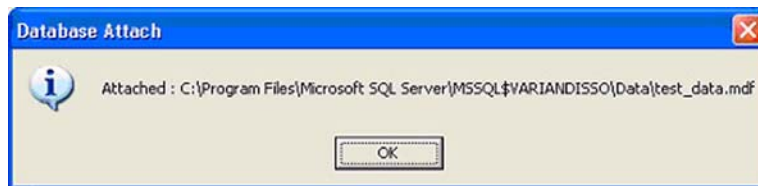
FIGURE 3. MSDE Manager screen



- Step 2. Select a machine name from the list of available servers. When connecting to a database installation on a local machine, the encrypted password is automatically entered in the password box. When connecting to a remote database, your system administrator may have to provide you with a password.

- Step 3. Click **Connect** to connect to the server or local PC.
- Step 4. Select the Attach tab on the MSDE Manager and attach the database by clicking **Attach**. Leave all the values at their default settings.
- Step 5. After successful attachment, the Database Attach screen displays.

FIGURE 4. Database Attach screen



- Step 6. Click **OK**.
- Step 7. Close the MSDE Manager screen.

Local Security Policy

For 21 CFR 11 compliance purposes, you should ensure that the following minimum configurations are made to your system's local security policy. It may be necessary to coordinate the following configurations with your domain administrator.

- Step 1. Click **Start > Run** to run the Local Security Settings Manager. Type **secpol.msc** and press **Enter**. The Local Security Settings Management screen displays.

- Step 2. Click **Security Settings > Account Policies > Password Policy** and set the following security policy configuration:

Policy	Security Setting
Enforce Password History	3 passwords remembered
Maximum password age	30 days
Minimum password length	6 characters
Password Must Meet Complexity Requirements	Enabled

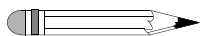
- Step 3. Click **Security Settings > Account Policies > Account Lockout Policy** and set the following configuration:

Policy	Security Setting
Account lockout duration	0 minutes (infinite)
Account lockout threshold	3 invalid login attempts
Reset account lockout counter	99999 minutes

- Step 4. Click **Security Settings > Local Policies > Audit Policy** and set the following configuration:

Policy	Security Setting
Audit account logon events	Success, Failure
Audit account management	Success, Failure
Audit logon events	Success, Failure
Audit policy change	Success, Failure

Configuring the Application



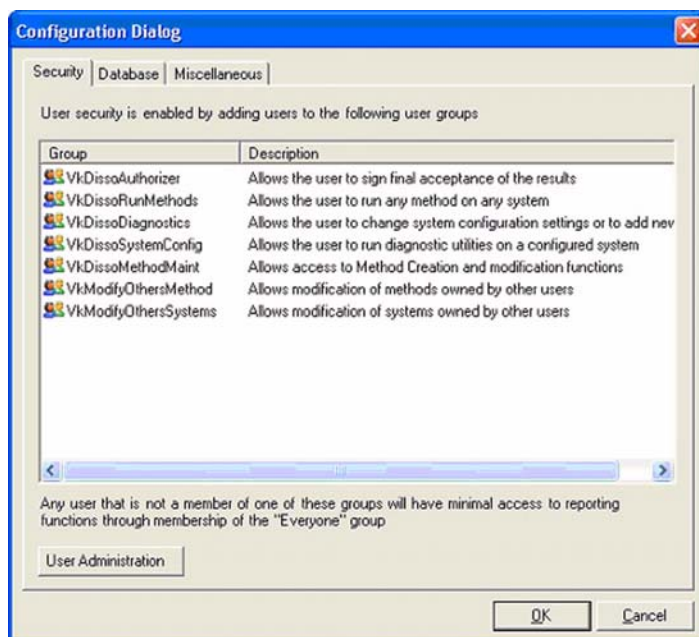
Note

In order to configure the application, it is necessary to be logged on as an administrator.

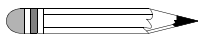
After attaching the database, complete the following steps to configure the application:

- Step 1. Double-click the desktop shortcut to launch the Dissolution Workstation software. After the hour-glass cursor disappears the application may still take approximately one minute to launch. The Configuration Dialog screen displays.

FIGURE 5. Configuration Dialog screen



- Step 2. To add a user to a group, select the Security tab on the Configuration Dialog screen.

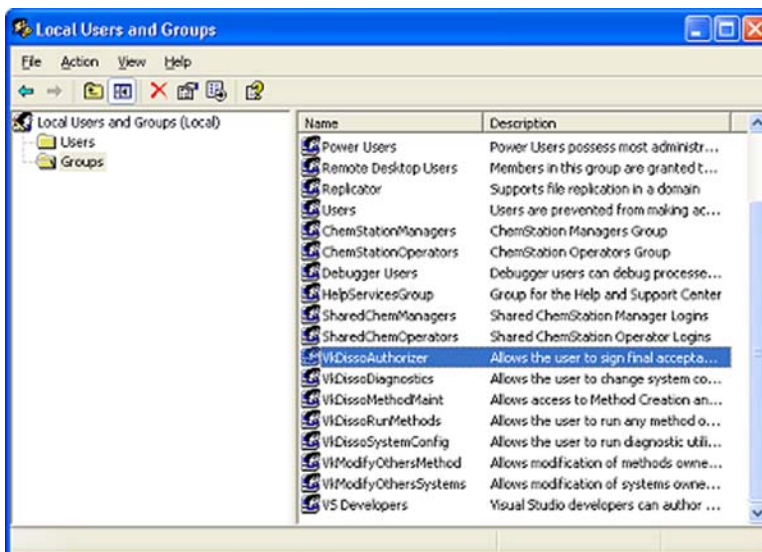


Note

This screen is also accessible within the Dissolution Workstation software by clicking Tools and selecting Options from the menu bar. Only an administrator can add users.

Click **User Administration** at the bottom of the screen. The Local Users and Groups screen displays.

FIGURE 6. Local Users and Groups screen



Double-click the desired VKxxxx group. The Group Property screen displays.

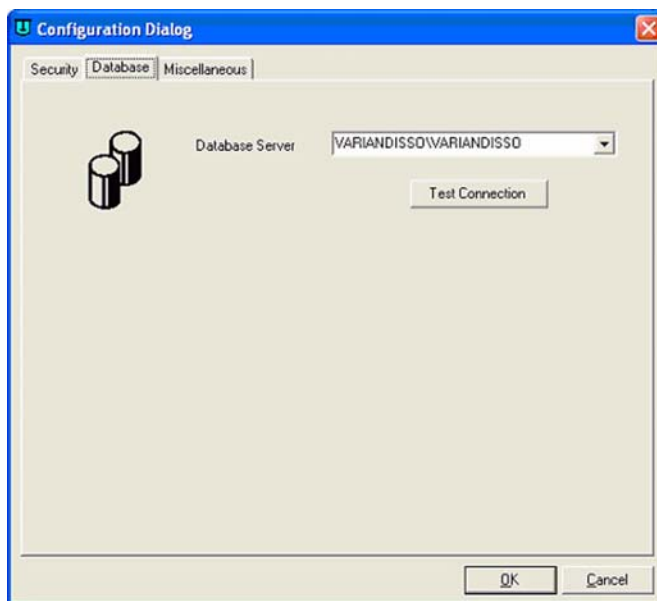
Click **Add...** to add users to the group. The Select Users, Computers, or Groups screen displays.

Enter the names of the users to add to the group and click **OK**.

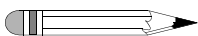
Repeat step 2 as appropriate for each group that requires new users.

- Step 3. From the Configuration Dialog screen, select the **Database** tab and select the SQL server that hosts the database.

FIGURE 7. Database tab



Note

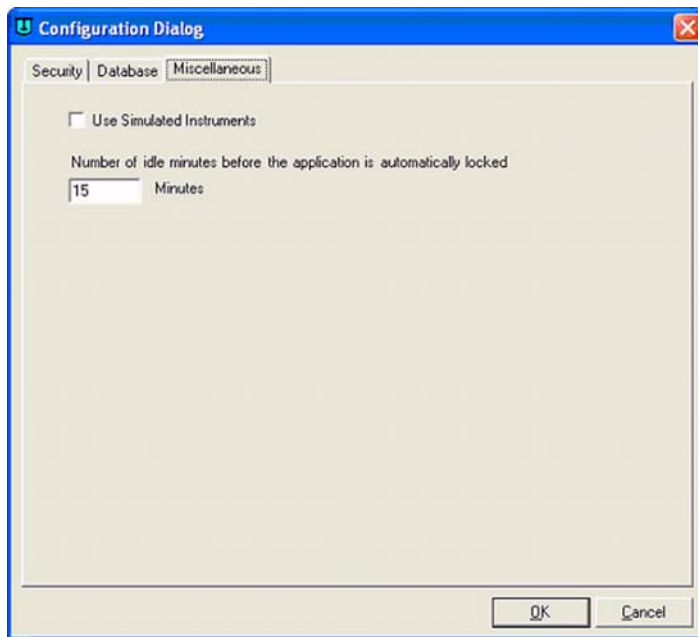


If your local server is not listed, the service may not be running. Check the status in the Services applet by clicking on Start > Run. Enter services.msc. Press Enter. If necessary, start the MSSQL\$VARIANDISSO service. Otherwise, manually enter the database server as *ComputerName\VARIANDISSO* where *ComputerName* is the name of your computer.

- Step 4. Click **Test Connection** to ensure the database connection is functional.
- Step 5. Select the **Miscellaneous** tab. To run the software without physically connecting instruments, check the Use Simulated Instruments box. The system operates in simulation mode.

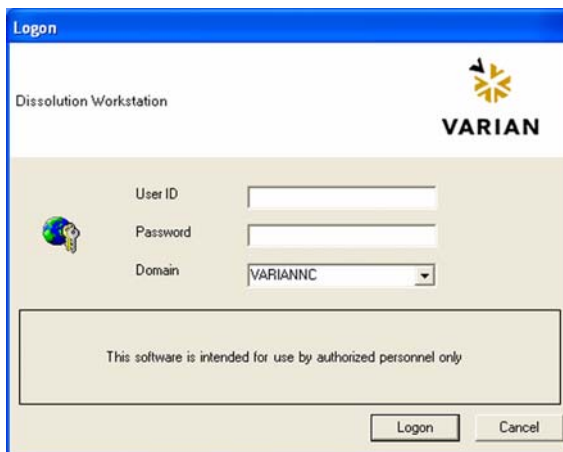
- Step 6. Enter an appropriate length of time in minutes the application can be idle before locking.

FIGURE 8. Miscellaneous tab



- Step 7. Click **OK**. The Logon screen displays (see Figure 9, “Logon screen,” on page 11). The application has been configured.

FIGURE 9. Logon screen

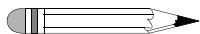


Workstation Connections

There are three ways to connect your dissolution equipment to the Dissolution Workstation. See the table on page 12. Each dissolution system requires at least one serial port. If the system includes the injector module, a second serial port is required. A typical computer has two serial ports and therefore has the capacity to connect up to two dissolution systems if the injector module is not used or one system if the injector is used. If your system configuration includes a VK 8020, see “HPLC Detector Connection to the VK 8020” on page 14 in addition to the appropriate connection diagram. Cable guides are listed with each connection diagram to aid in selecting the necessary cables for your configuration.

Since the software can control up to four complete dissolution systems, it is often necessary to add additional serial ports to the PC controlling the instruments. We recommend the use of either the Edgeport/8 (8 serial DB-9), or Edgeport/416 (4 USB 16 serial DB-9).

Note



When using the multiport device server, you can connect different dissolution systems based on port availability. This is true with daisy-chain or individual connection. See “Dissolution Apparatus / VK 8000 / Peristaltic Pump, Syringe Pump, or Syringe Pump and Filter Changer (Daisy-chain to MDS)” on page 27.

The following instructions refer to COM1, COM2, etc. It is acceptable to substitute different COM port numbers based on the physical layout of your system.

Workstation Connection	Peripheral Equipment	Procedures
Daisy-chain Connection to PC	VK 8000 /peristaltic pump	see “Dissolution Apparatus / VK 8000 / Peristaltic Pump (Daisy-chain to PC)” on page 15
	VK 8020 /peristaltic pump	see “HPLC Detector Connection to the VK 8020” on page 14 and “Dissolution Apparatus / VK 8020 / Peristaltic Pump (Daisy-chain to PC)” on page 16
	VK 8000 / syringe pump	see “Dissolution Apparatus / VK 8000 / Syringe Pump (Daisy-chain to PC)” on page 17
	VK 8020 / syringe pump	see “HPLC Detector Connection to the VK 8020” on page 14 and “Dissolution Apparatus / VK 8020 / Syringe Pump (Daisy-chain to PC)” on page 18
	VK 8000 / syringe pump / filter changer	see “Dissolution Apparatus / VK 8000 / Syringe Pump / Filter Changer (Daisy-chain to PC)” on page 19
	VK 8020 / syringe pump / filter changer	see “HPLC Detector Connection to the VK 8020” on page 14 and “Dissolution Apparatus / VK 8020 / Syringe Pump / Filter Changer (Daisy-chain to PC)” on page 20

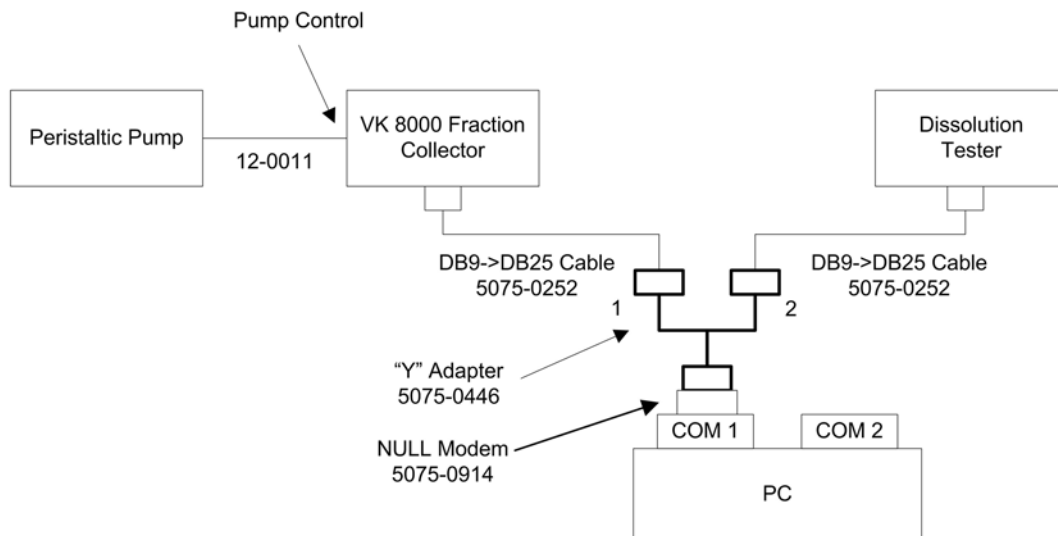
Workstation Connection	Peripheral Equipment	Procedures
Individual Connection to Multiport Device Server (MDS)	VK 8000 / peristaltic pump	see "Dissolution Apparatus / VK 8000 / Peristaltic Pump (Individual to MDS)" on page 21
	VK 8020 /peristaltic pump	see "HPLC Detector Connection to the VK 8020" on page 14 and "Dissolution Apparatus / VK 8020 / Peristaltic Pump (Individual to MDS)" on page 22
	VK 8000 / syringe pump	see "Dissolution Apparatus / VK 8000 / Syringe Pump (Individual to MDS)" on page 23
	VK 8020 / syringe pump	see "HPLC Detector Connection to the VK 8020" on page 14 and "Dissolution Apparatus / VK 8020 / Syringe Pump (Individual to MDS)" on page 24
	VK 8000 / syringe pump / filter changer	see "Dissolution Apparatus / VK 8000 / Syringe Pump / Filter Changer (Individual to MDS)" on page 25
	VK 8020 / syringe pump / filter changer	see "HPLC Detector Connection to the VK 8020" on page 14 and "Dissolution Apparatus / VK 8020 / Syringe Pump / Filter Changer (Individual to MDS)" on page 26
Daisy-chain Connection to Multiport Device Server (MDS)	VK 8000 / peristaltic pump, syringe pump, or syringe pump and filter changer	see "Dissolution Apparatus / VK 8000 / Peristaltic Pump, Syringe Pump, or Syringe Pump and Filter Changer (Daisy-chain to MDS)" on page 27
	VK 8020 / peristaltic pump or syringe pump	see "HPLC Detector Connection to the VK 8020" on page 14 and "Dissolution Apparatus / VK 8020 / Peristaltic Pump or Syringe Pump (Daisy-chain to MDS)" on page 28
	VK 8020 / syringe pump and filter changer	see "HPLC Detector Connection to the VK 8020" on page 14 and "Dissolution Apparatus / VK 8020 / Syringe Pump and Filter Changer (Daisy-chain to MDS)" on page 29

HPLC Detector Connection to the VK 8020

If your systems configuration includes a VK 8020, complete the following steps to attach the HPLC Detector to the VK 8020:

- Step 1. Plug one end of the four-pin cable with two bare wires into the outlet labeled Start Output on the rear of the VK 8020.
- Step 2. Connect the wire labeled "2" to the Start Input negative closure on the HPLC system and the wire labeled "4" to the Start Input positive closure.
- Step 3. Plug one end of the four-pin cable with two bare wires into the outlet labeled Injection Input on the rear of the VK 8020.
- Step 4. Connect the wire labeled "2" to the Ready Out negative closure on the HPLC system and the wire labeled "4" to the Ready Out positive closure.

Dissolution Apparatus / VK 8000 / Peristaltic Pump (Daisy-chain to PC)

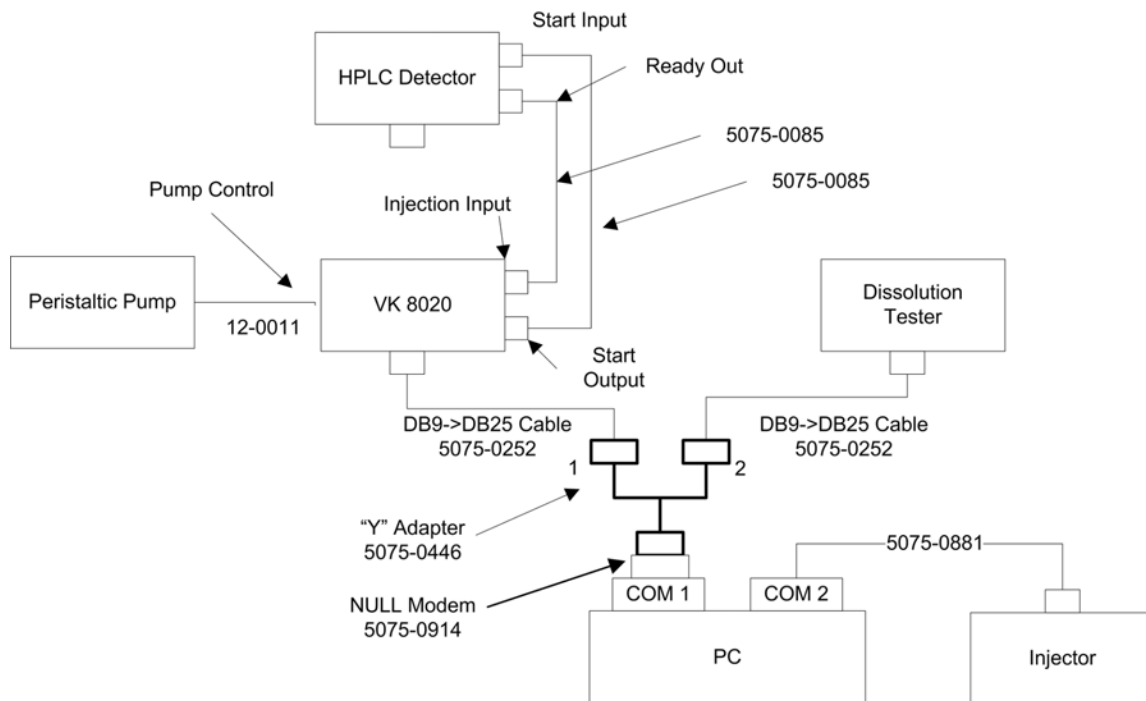


Cable Guide

Part Number	Quantity
5075-0446	1
5075-0914	1
5075-0252	2
12-0011*	0

* supplied with pump

Dissolution Apparatus / VK 8020 / Peristaltic Pump (Daisy-chain to PC)

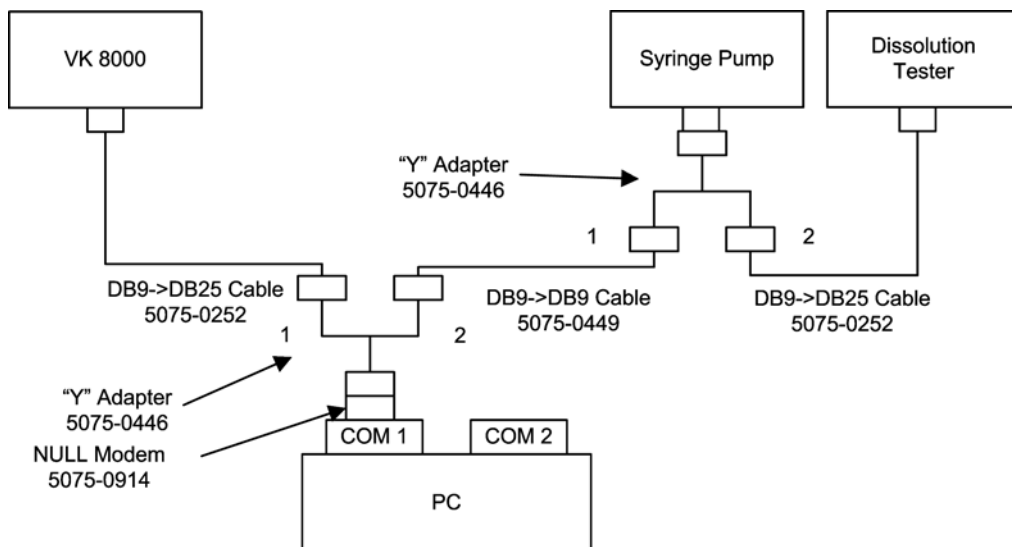


Cable Guide

Part Number	Quantity
5075-0085	2
5075-0252	2
5075-0446	1
5075-0914	1
5075-0881	1
12-0011*	0

* supplied with pump

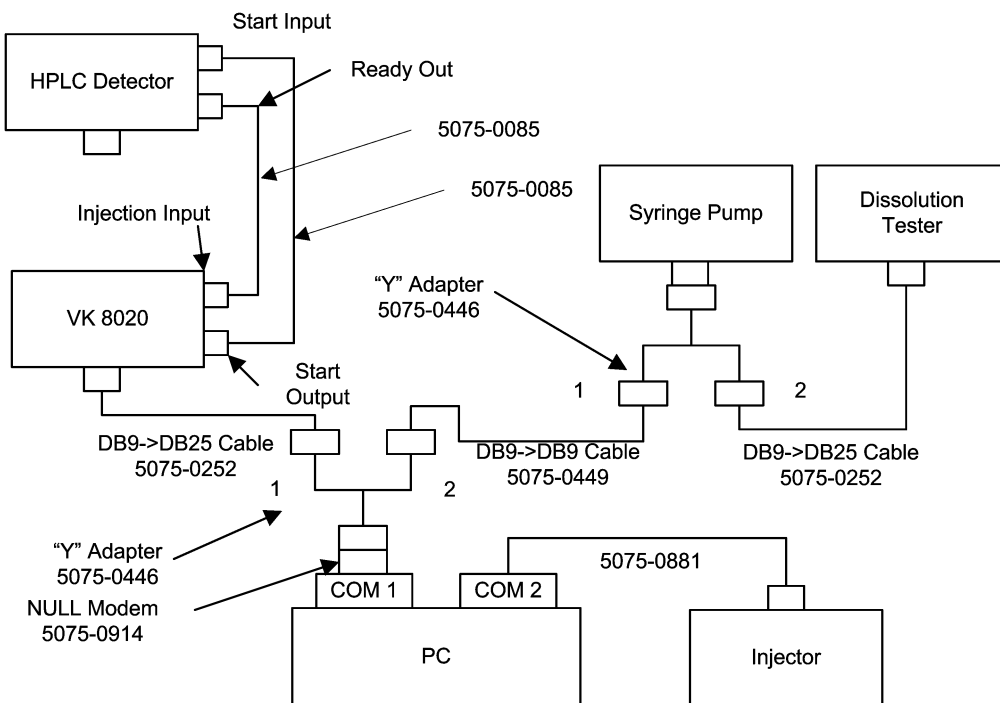
Dissolution Apparatus / VK 8000 / Syringe Pump (Daisy-chain to PC)



Cable Guide

Part Number	Quantity
5075-0446	2
5075-0914	1
5075-0252	2
5075-0449	1

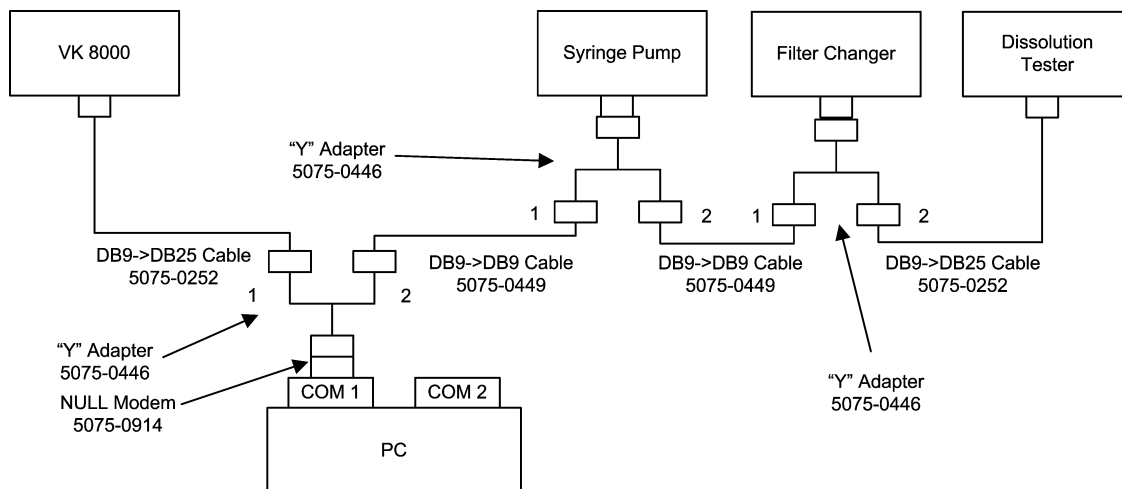
Dissolution Apparatus / VK 8020 / Syringe Pump (Daisy-chain to PC)



Cable Guide

Part Number	Quantity
5075-0446	2
5075-0252	2
5075-0085	2
5075-0881	1
5075-0449	1
5075-0914	1

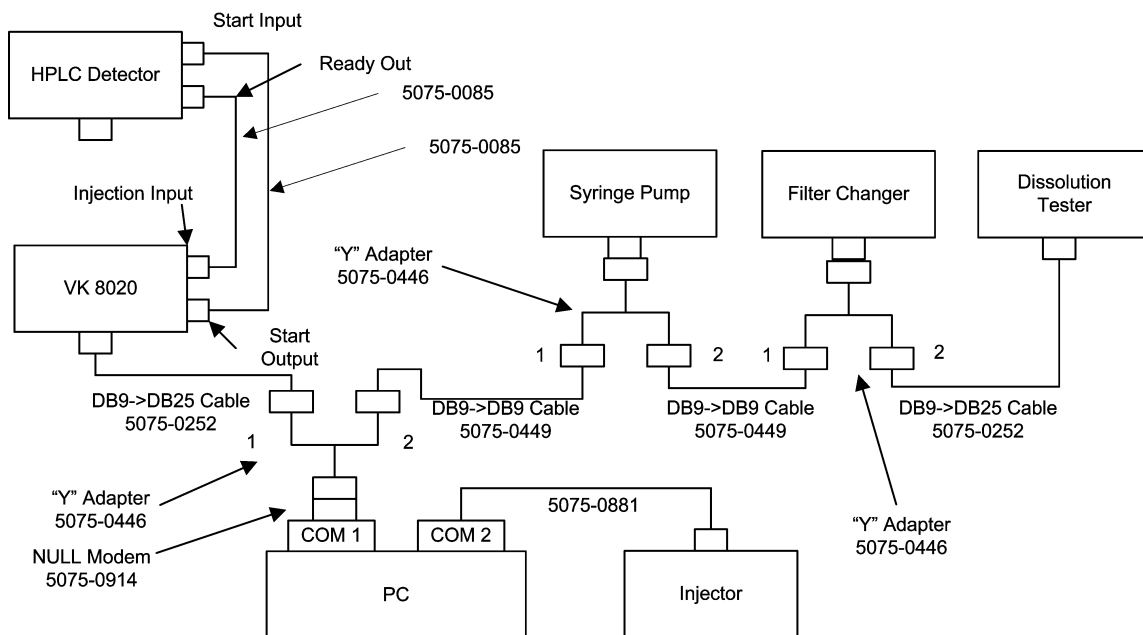
Dissolution Apparatus / VK 8000 / Syringe Pump / Filter Changer ***Changer (Daisy-chain to PC)***



Cable Guide

Part Number	Quantity
5075-0914	1
5075-0446	3
5075-0252	2
5075-0449	2

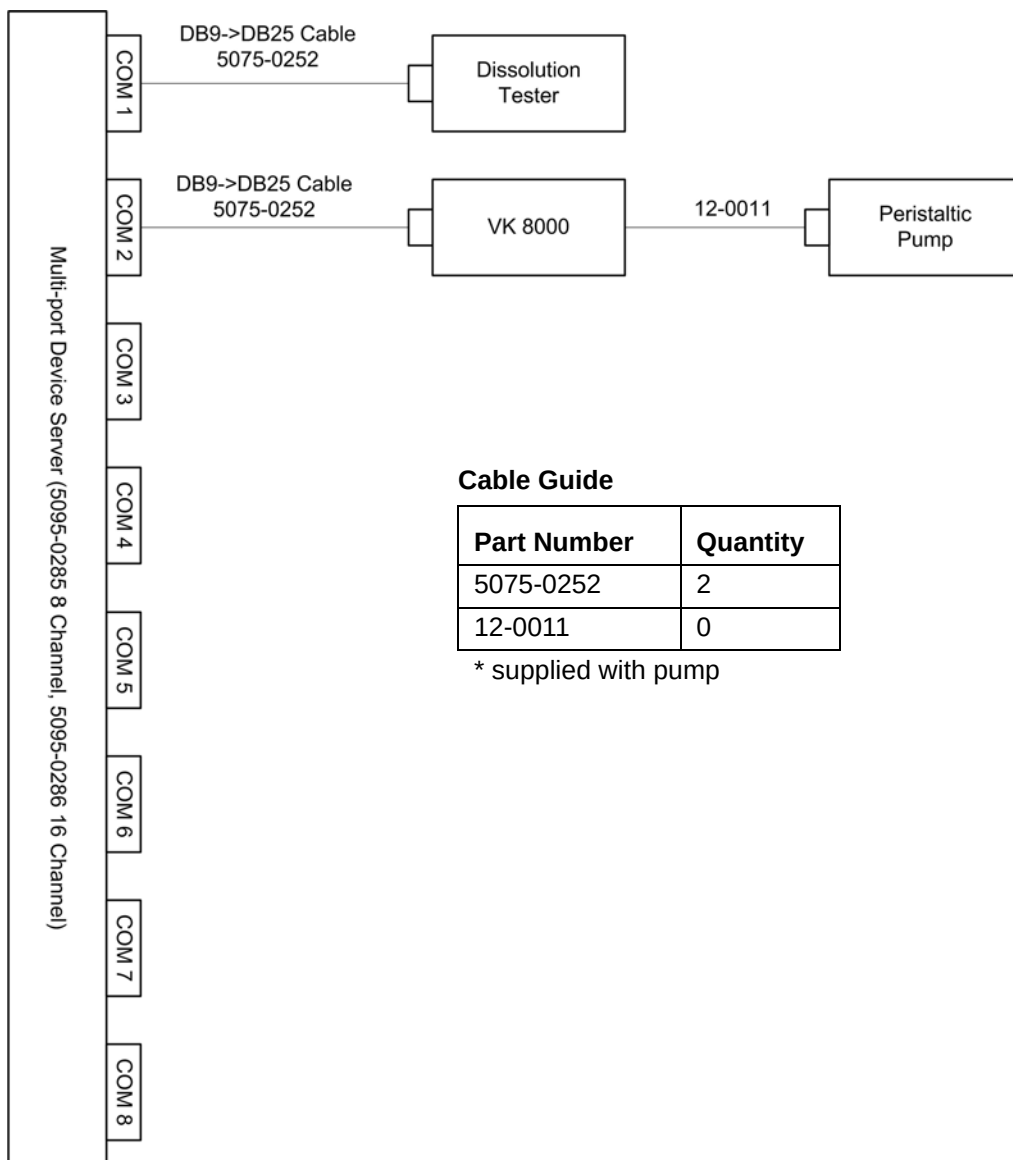
Dissolution Apparatus / VK 8020 / Syringe Pump / Filter Changer Changer (Daisy-chain to PC)



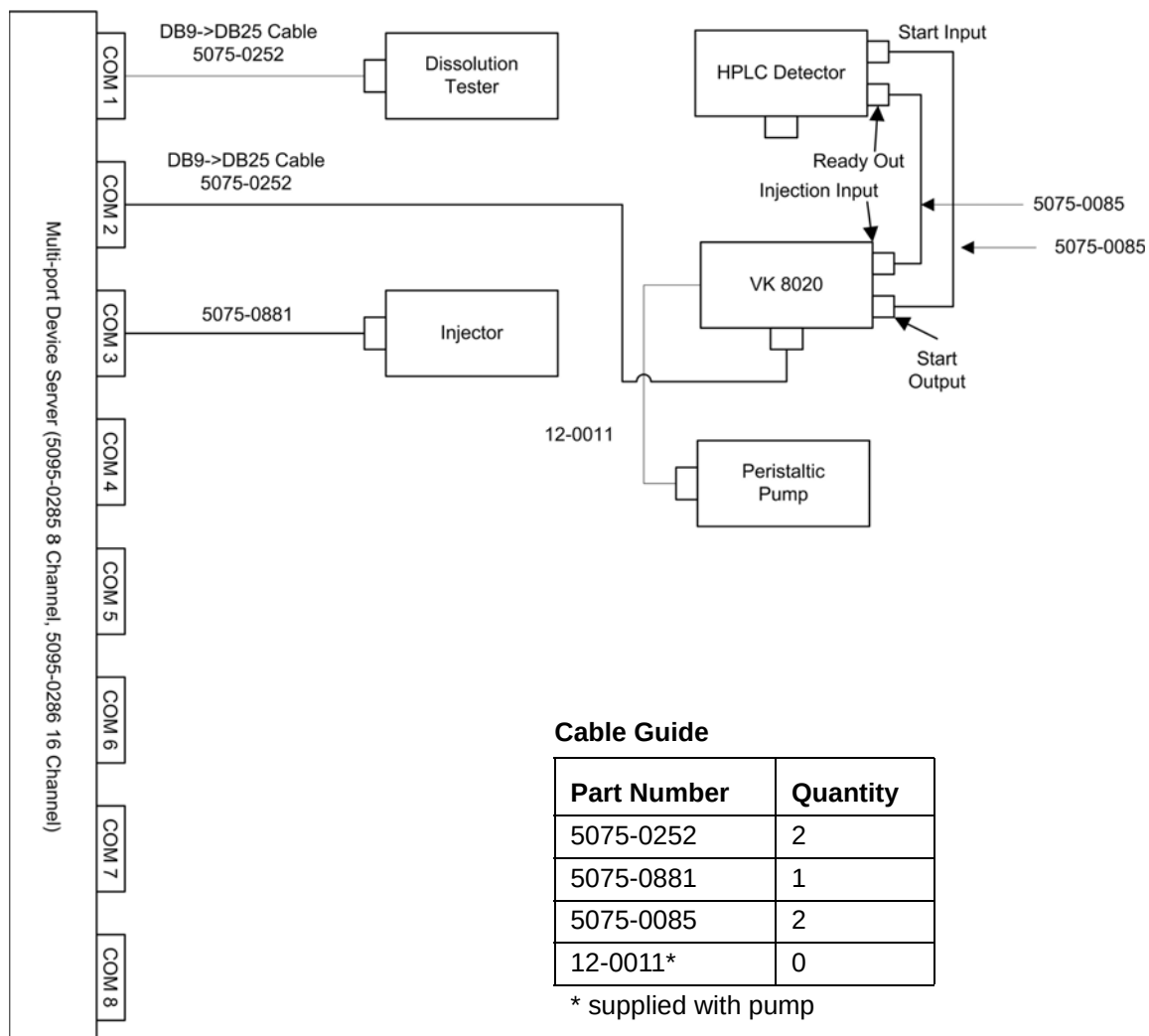
Cable Guide

Part Number	Quantity
5075-0446	3
5075-0914	1
5075-0252	2
5075-0449	2
5075-0881	1
5075-0085	2

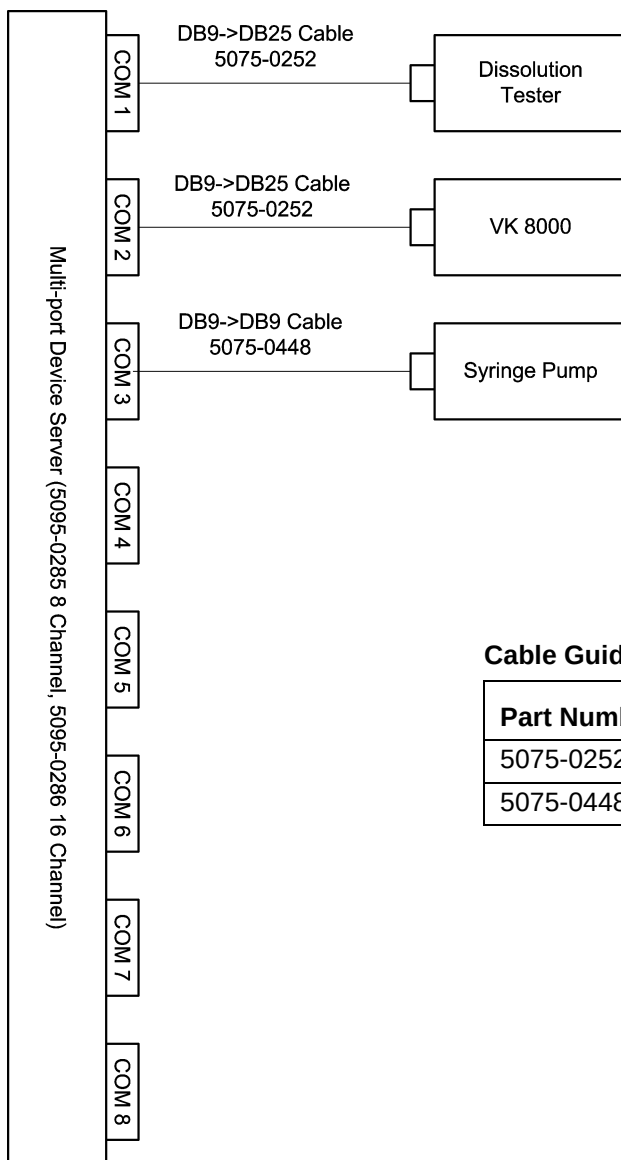
Dissolution Apparatus / VK 8000 / Peristaltic Pump (Individual to MDS)



Dissolution Apparatus / VK 8020 / Peristaltic Pump (Individual to MDS)



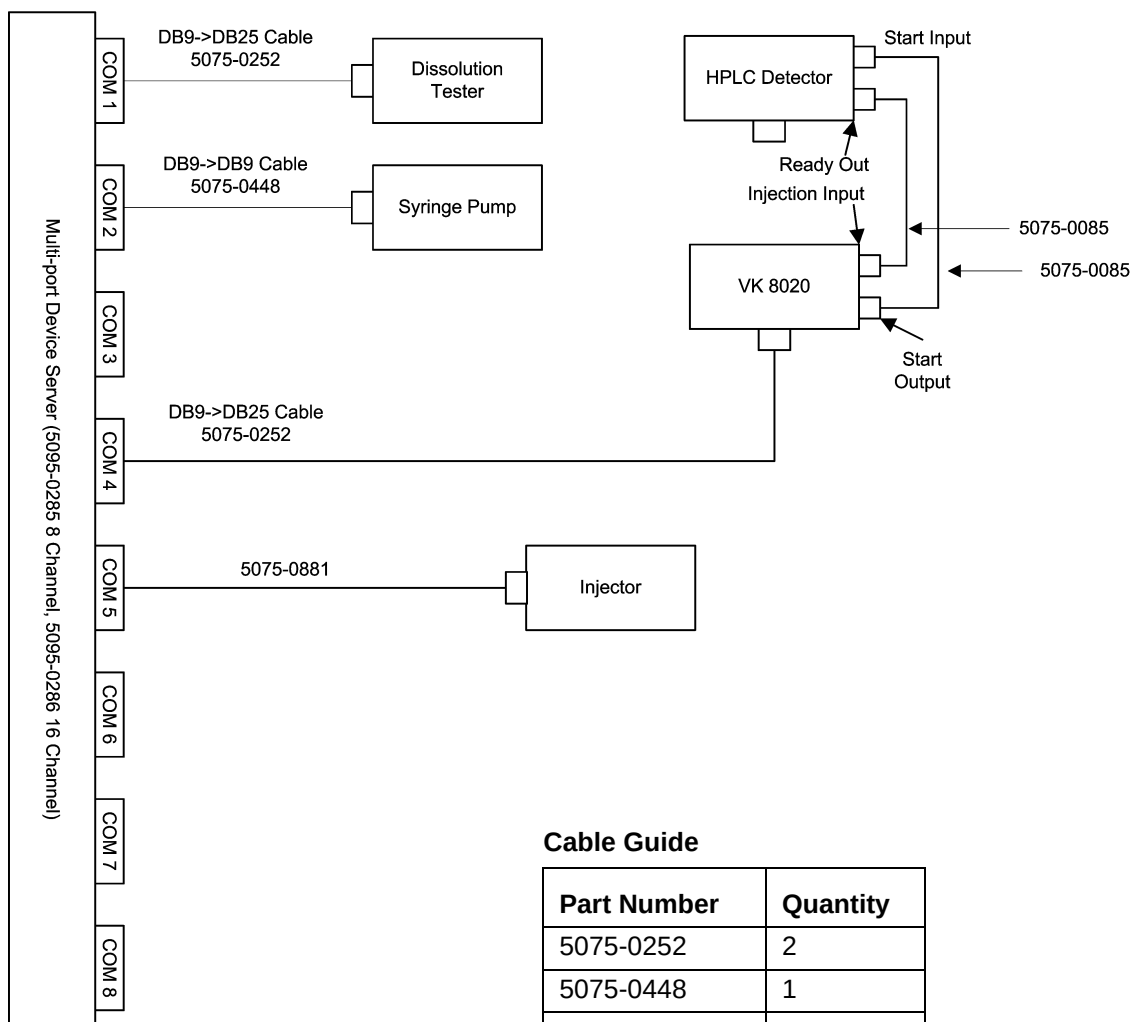
Dissolution Apparatus / VK 8000 / Syringe Pump (Individual to MDS)



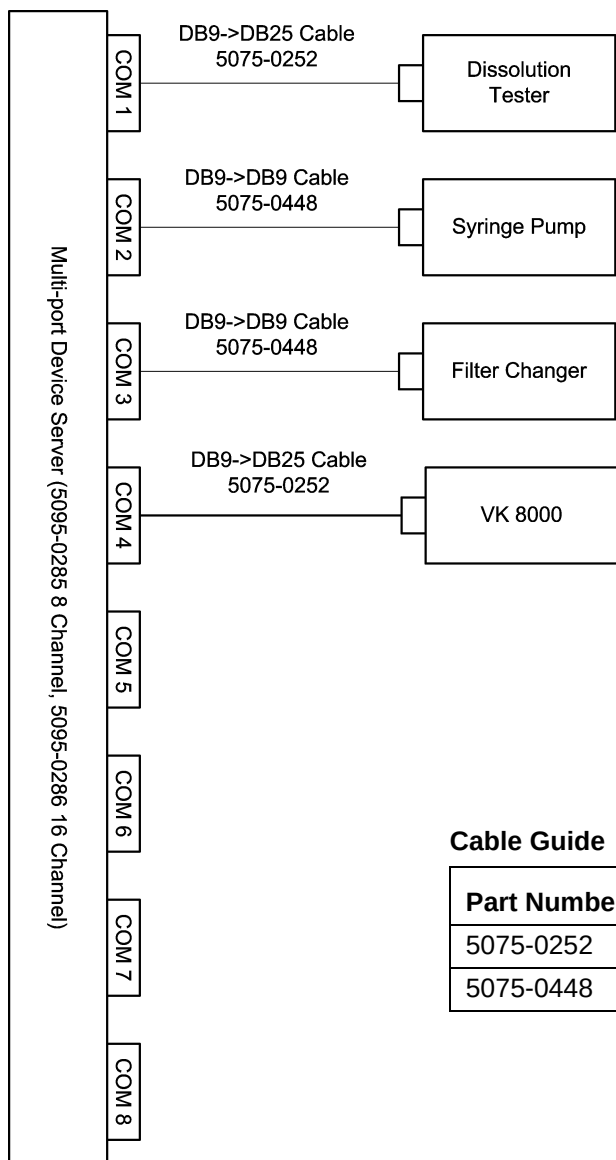
Cable Guide

Part Number	Quantity
5075-0252	2
5075-0448	1

Dissolution Apparatus / VK 8020 / Syringe Pump (Individual to MDS)



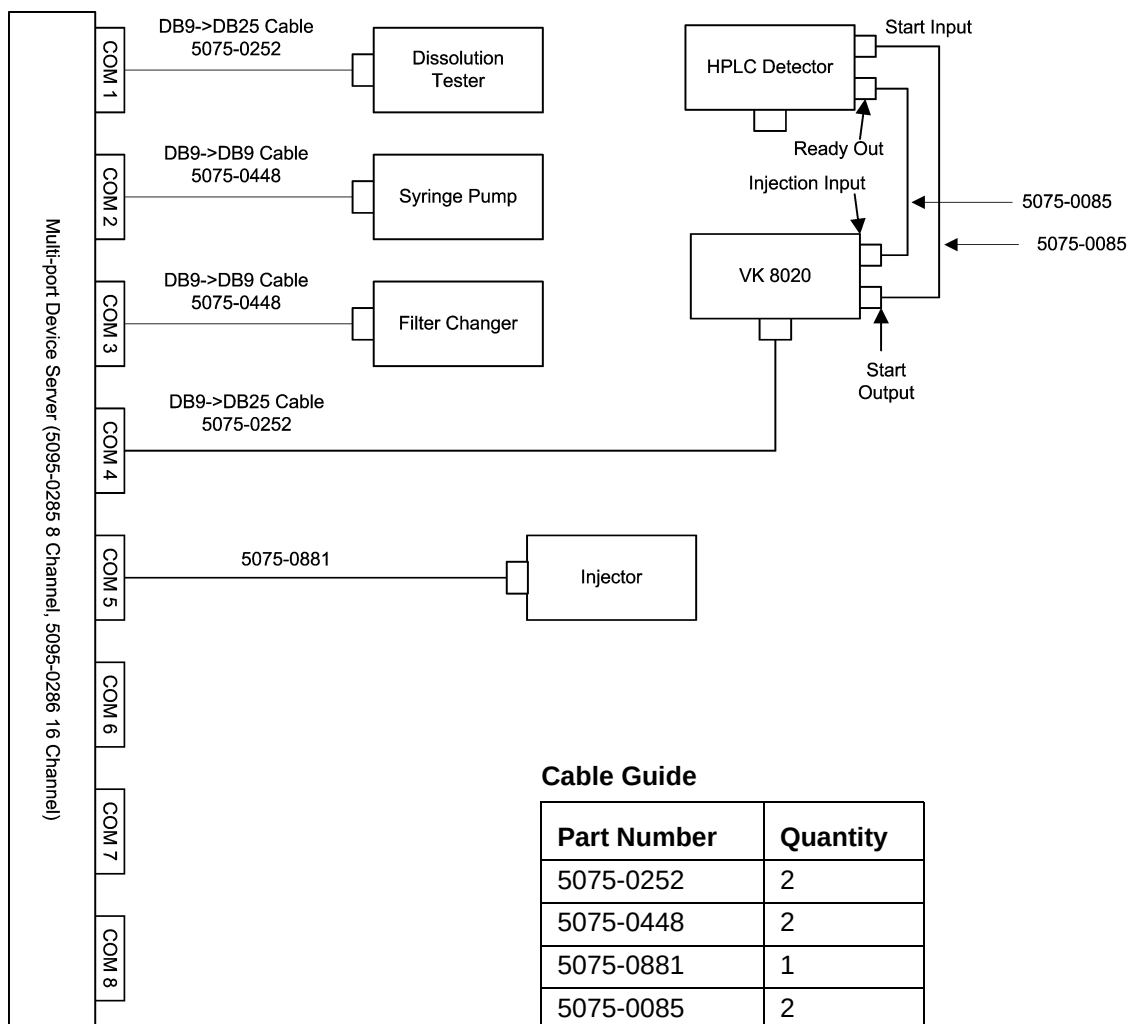
Dissolution Apparatus / VK 8000 / Syringe Pump / Filter Changer (Individual to MDS)



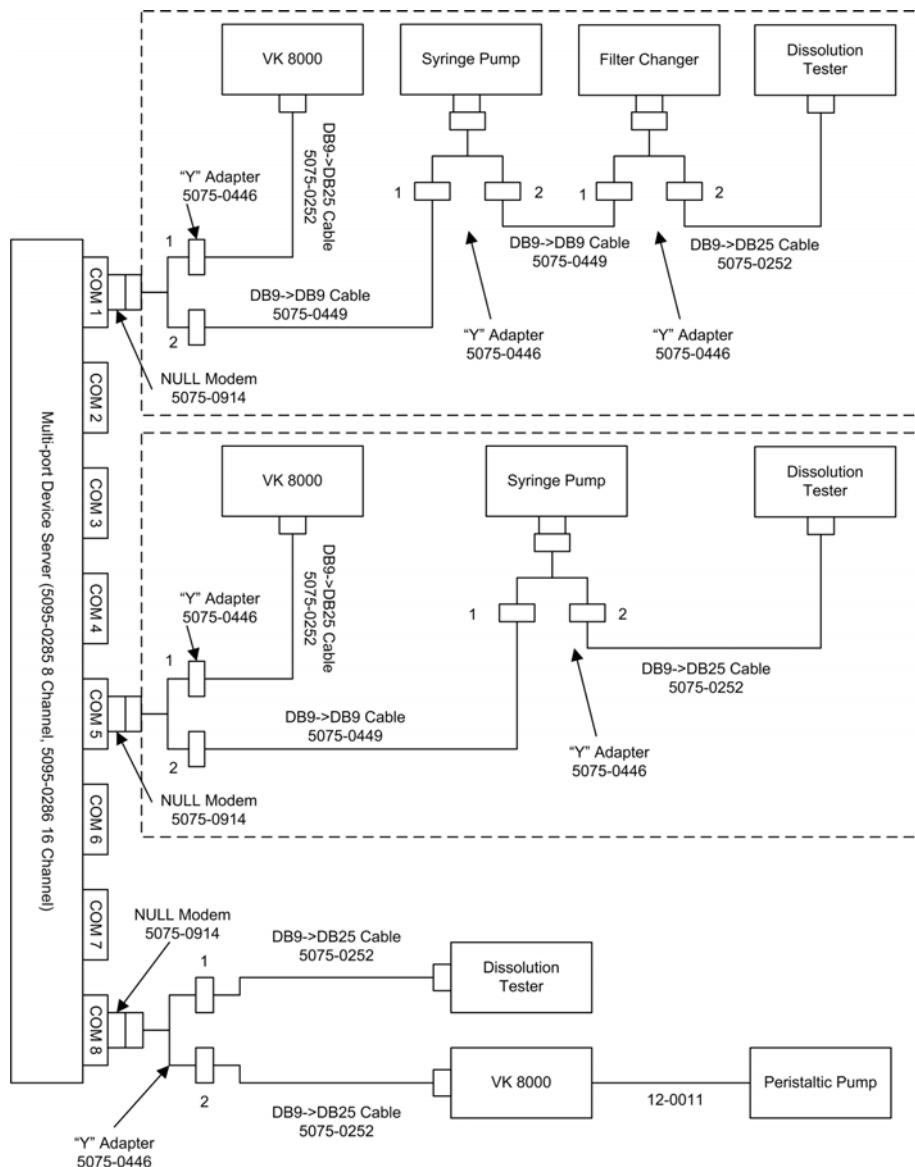
Cable Guide

Part Number	Quantity
5075-0252	2
5075-0448	2

Dissolution Apparatus / VK 8020 / Syringe Pump / Filter Changer



Dissolution Apparatus / VK 8000 / Peristaltic Pump, Syringe Pump, or Syringe Pump and Filter Changer (Daisy-chain to MDS)

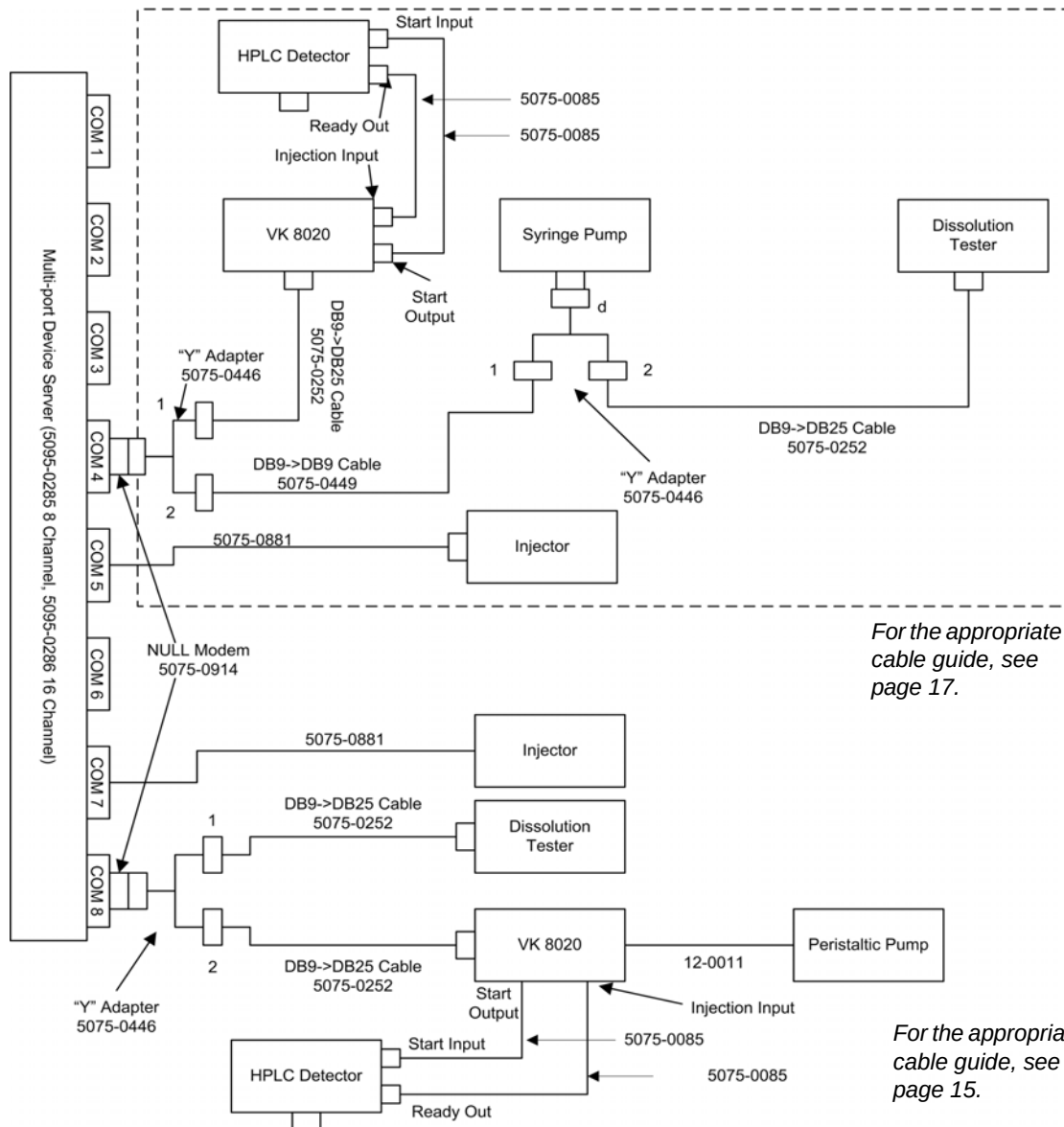


For the appropriate cable guide, see page 19.

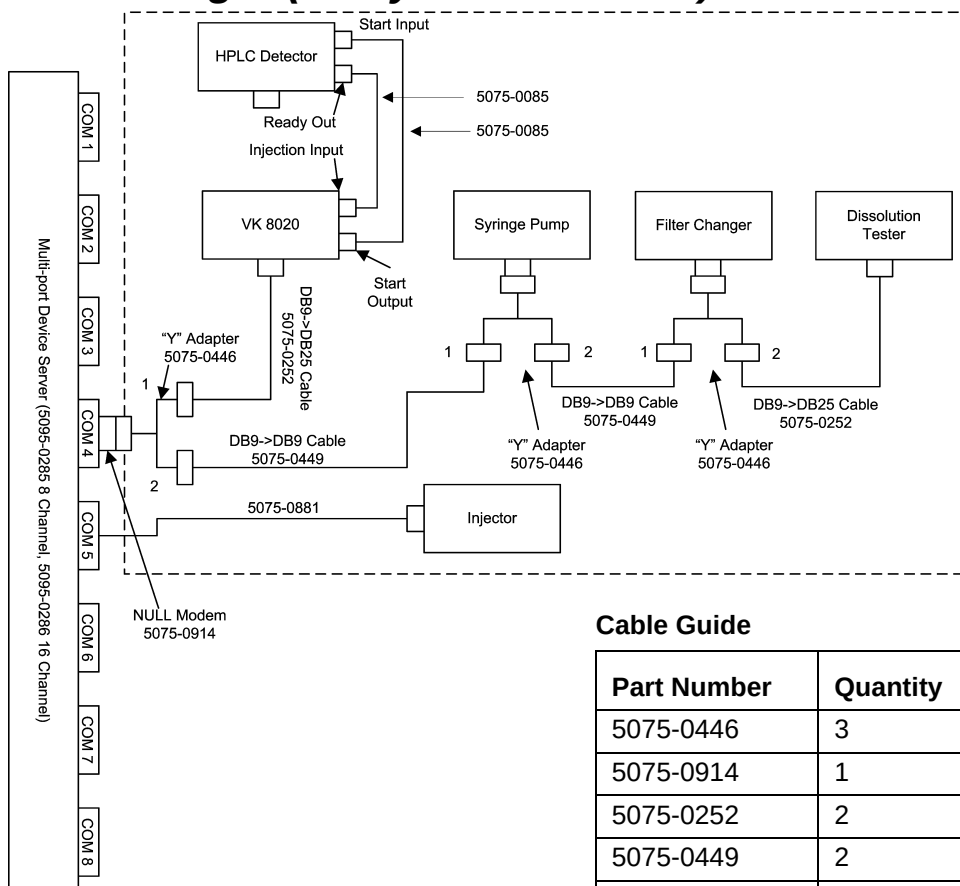
For the appropriate cable guide, see page 17.

For the appropriate cable guide, see page 15.

Dissolution Apparatus / VK 8020 / Peristaltic Pump or Syringe Pump (Daisy-chain to MDS)



Dissolution Apparatus / VK 8020 / Syringe Pump and Filter Changer (Daisy-chain to MDS)



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