

# Chromatography Column Connection Guide

# Connecting Bio-Rad Columns to GE Healthcare Chromatography Systems, and GE Healthcare Columns to Bio-Rad Chromatography Systems

Column	System Being Connected	Fitting Options	Image
1/16" Fingertight fitting columns (e.g., Tricorn, HiTrap, RESOURCE columns)	BioLogic DuoFlow™ system	GE Healthcare 1/16" fingertight male fitting (GE 18-1112-55)	
	BioLogic™ LP system  or	GE Healthcare 1/16" male to female luer lock fitting (GE 18-1112-51)	
	BioLogic DuoFlow system	GE Healthcare union 1/16" female to M6 male (GE 18-1112-57)	
		GE Healthcare union luer lock female to M6 female fitting (GE 18-1027-12)	
GE Healthcare M6 fitting columns (e.g., XK, C, SR, old style, HiTrap, HiPrep, HiLoad columns)	BioLogic DuoFlow system	Bio-Rad Tefzel 1/4–28 female to M6 female adaptor (Bio-Rad 750-0561); 1 kit to connect 1 column	
	BioLogic LP system	Female luer lock to M6 male fitting (Upchurch P-686 <b>or</b> GE 18-1027-62)	
	BioLogic LP system  or	GE Healthcare union luer lock female to M6 female fitting (GE 18-1027-12)	
	BioLogic DuoFlow system	Bio-Rad female luer lock to M6 female adaptor (Bio-Rad 732-0111); 1 kit to connect 1 column	
Bio-Rad luer lock fitting columns (e.g., Econo-Column® columns, Econo-Pac® columns, Econo-Pac® cartridges, and Bio-Scale™ Mini cartridges)	ÄKTA systems	GE Healthcare union luer lock female to M6 female fitting (GE 18-1027-12)	
		Female luer lock to M6 male fitting (Upchurch P-686 <b>or</b> GE 18-1027-62)	
		Bio-Rad female luer lock to M6 female adaptor (Bio-Rad 732-0111); 1 kit to connect 1 column	
	BioLogic DuoFlow system	Bio-Rad luer to 1/4–28 female adaptor (Bio-Rad 732-0113); 1 kit to connect 1 column	
	BioLogic LP system, Model EP-1 Econo™ pump, Econo gradient pump	Bio-Rad barb to female luer (Bio-Rad 731-8221, 731-8222, <b>or</b> 731-8223)	
		Bio-Rad barb to male luer (Bio-Rad 731-8224, 731-8225, <b>or</b> 731-8226)	
Bio-Rad 1/4–28 fitting columns (e.g., Bio-Scale™ and UNO® columns)	ÄKTA systems	Upchurch M6 female to 1/4–28 male adaptor (Upchurch P-670)	
		Bio-Rad Tefzel 1/4–28 female to M6 female adaptor (Bio-Rad 750-0561); 1 kit to connect 1 column	
		Bio-Rad 1/16" OD 1/4–28 fitting (Bio-Rad 750-0554)	



## Connecting to the BioLogic LP System

#### **GE Healthcare M6 fitting columns**

GE Healthcare union luer lock female to M6 female fitting + M6 male fitting on tubing\* > XK column (M6 fitting column) < M6 male fitting on tubing\* + GE Healthcare union luer lock female to M6 female fitting

#### GE Healthcare 1/16" fingertight fitting columns (fittings are included with column)

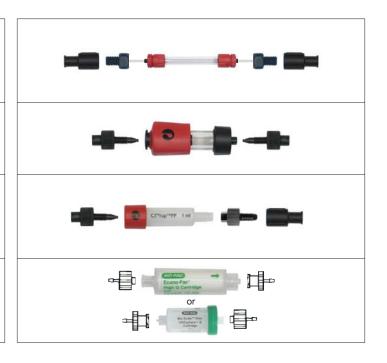
■ GE Healthcare 1/16" male to female luer lock fitting > Tricorn column (1/16" fitting column) < GE Healthcare 1/16" male to female luer lock fitting

#### GE Healthcare 1/16" fingertight fitting column (fittings are included with column)

GE Healthcare 1/16" male to female luer lock fitting > HiTrap column (1/16" fitting column) <</p> GE Healthcare union 1/16" female to M6 male + GE Healthcare union luer lock female to M6 female fitting

#### Bio-Rad luer fitting columns (fittings are included with the BioLogic LP system)

Barb to male luer > Econo-Pac cartridge or Bio-Scale Mini cartridge < Barb to female luer



## Connecting to the BioLogic DuoFlow System

#### **GE Healthcare 1/16" fingertight fitting columns**

Bio-Rad 1/4-28 fitting\*\* + tubing + GE Healthcare 1/16" fingertight male fitting > Tricorn column (1/16" fitting column) < GE Healthcare 1/16" fingertight male fitting + tubing + Bio-Rad 1/4-28 fitting\*\*

#### **GE Healthcare M6 fitting columns**

■ Bio-Rad Tefzel 1/4–28 female to M6 female adaptor + M6 male tubing connector\* > XK column (M6 fitting column) < M6 male tubing connector\* + Bio-Rad Tefzel 1/4–28 female to M6 female adaptor

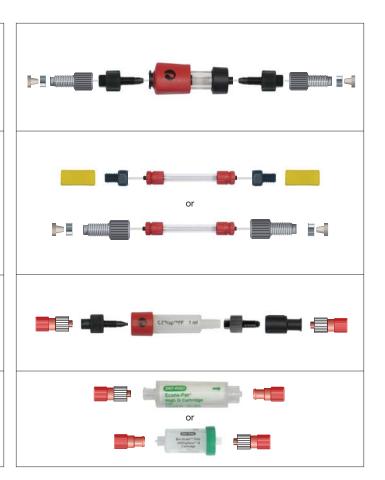
■ Bio-Rad 1/4–28 fitting\*\* + tubing > XK column (M6 fitting column) < tubing + Bio-Rad 1/4-28 fitting\*\*

#### **GE Healthcare 1/16" fingertight fitting column**

Bio-Rad luer to 1/4-28 female adaptor + GE Healthcare 1/16" male to female luer lock fitting > HiTrap column (1/16" fitting column) < GE Healthcare union 1/16" female to M6 male + GE Healthcare union luer lock female to M6 female fitting + Bio-Rad luer to 1/4-28 female adaptor

#### Bio-Rad luer lock fitting columns (fittings are included with the **BioLogic DuoFlow system)**

■ Bio-Rad luer to 1/4–28 female adaptor > Econo-Pac cartridge or Bio-Scale Mini cartridge < Bio-Rad luer to 1/4-28 female adaptor



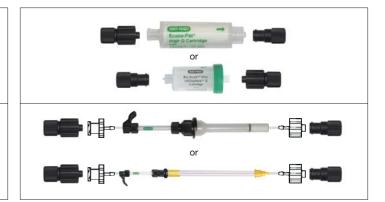
## Connecting to the ÄKTAprime Plus System

#### Bio-Rad luer lock fitting columns using GE Healthcare M6 fittings

Bio-Rad female luer lock to M6 female adaptor > Econo-Pac cartridge or Bio-Scale Mini cartridge < Bio-Rad female luer lock to M6 female adaptor

#### **Bio-Rad luer lock fitting columns using GE Healthcare M6 fittings**

Bio-Rad female luer lock to M6 female adaptor + Bio-Rad barb to female luer > Econo-Pac column with flow adaptor or Econo-Column column with flow adaptor < Bio-Rad barb to male luer + Bio-Rad female luer lock to M6 female adaptor



## Connecting to ÄKTA Systems

### Bio-Rad luer lock fitting columns using GE 1/16" fingertight fittings

GE Healthcare 1/16" fingertight male fitting + GE union 1/16" female to M6 male + Bio-Rad female luer lock to M6 female adaptor > Econo-Column column, Econo-Pac cartridge, **or** Bio-Scale Mini cartridge < GE 1/16" male to female luer lock fitting

### **Bio-Rad 1/4–28 fitting columns using GE Healthcare M6 fittings**

Bio-Rad Tefzel 1/4-28 female to M6 female adaptor + Bio-Rad 1/4-28 fingertight fitting\* > UNO column < Bio-Rad 1/4–28 fingertight fitting\* + Bio-Rad Tefzel 1/4–28 female to M6 female adaptor

■ Upchurch M6 female to 1/4–28 male adaptor > UNO column < Upchurch M6 female to 1/4-28 male adaptor

#### Bio-Rad 1/4-28 fitting columns using GE Healthcare 1/16" fingertight fittings

■ GE Healthcare 1/16" fingertight male fitting + tubing + 1/4–28 fingertight fitting\*\*\* > UNO column < 1/4–28 fingertight fitting\*\*\* + tubing + GE Healthcare 1/16" fingertight male fitting

\*\* 1/4–28 fitting is standard for the BioLogic DuoFlow system. \*\*\* Supplied with column; standard 1/4-28 fitting also accommodated.



Connector is supplied on tubing with column.