



# AZURA® Analytical Capillaries, Fittings and Start-Up Kits for 1/16" Connections

## AZURA Analytical Start-Up Kits

The AZURA Analytical Start-Up Kits AZF110 and AZF120 contain capillaries in several lengths as well as adapters and connectors. They are especially designed for the installation of standard configurations of AZURA Analytical HPLC, UHPLC and ULDC systems.

Use the following lists for future orders and for ordering additional capillary lengths.

Start-up kit		Included items	
Order no.	Recommended for	Capillaries to connect	Adapters and connectors
AZF110	AZURA ULDC and UHPLC systems	<ul style="list-style-type: none"> <li>• Pump and Autosampler</li> <li>• Autosampler and Column</li> <li>• Column and Detector</li> </ul>	<ul style="list-style-type: none"> <li>• 1 Connector stainless steel</li> <li>• 2 Wrench-tight fittings stainless steel incl. 4 ferrules</li> </ul>
AZF120	AZURA HPLC 862 bar systems	<ul style="list-style-type: none"> <li>• Optionally used: Pump and Autosampler (2 AZURA L Detectors in between)</li> </ul>	<ul style="list-style-type: none"> <li>• 5 adapters for AZURA L-devices capillary guidance</li> </ul>

## Trouble-free (U)HPLC Connections with Reusable Zero Dead Volume Fittings for 1/16"

Capillary type	ID [mm]	Length [mm]	Recommended to connect	Order no.
MarvelXACT™ SST	0.254	150		AZF121
MarvelXACT™ SST	0.254	250		AZF122
MarvelXACT™ SST	0.254	350		AZF123
MarvelXACT™ SST	0.254	500		AZF124
MarvelXACT™ SST	0.254	600	Pump and Autosampler, all systems with 1 AZURA L detector	AZF125
MarvelXACT™ SST	0.125	150		AZF111
MarvelXACT™ SST	0.125	250		AZF112
MarvelXACT™ SST	0.125	350	Column and Detector / Detector 1 and Detector 2	AZF113
MarvelXACT™ SST	0.125	500	Autosampler and Column ≤150 mm length / Column and Detector	AZF114
MarvelXACT™ SST	0.125	600	Autosampler - Column ≥ 250 mm length	AZF115
MarvelXACT™ SST	0.100	150		AZF101
MarvelXACT™ SST	0.100	250		AZF102
MarvelXACT™ SST	0.100	350	Column and Detector / Detector 1 and Detector 2	AZF103
MarvelXACT™ SST	0.100	500	Autosampler and Column ≤ 150 mm length / Column and Detector	AZF104
MarvelXACT™ SST	0.100	600	Autosampler and Column > 250 mm length	AZF105
MarvelXACT™ Peek-Lined SST	0.075	500	Autosampler and Column ≤ 150 mm length / Column and Detector (UHPLC and ULDC)	AZF05
MarvelXACT™ Peek-Lined SST	0.075	350	Column and Detector (UHPLC and ULDC) / Detector 1 and Detector 2	AZF05-1
MarvelXACT™ Peek-Lined SST	0.075	600		AZF05-2
Flexible SST capillary	0.180	900	Pump and Autosampler, all systems with 2 AZURA L detectors or for benchtop installation	AZF55-1

## Fittings and Adapters

Description	Recommended for	Order no.
<b>Wrench-tight fittings incl. ferrules for HPLC and UHPLC with 1/16" connections SST</b> , Set of 2, incl. ferrule, UNF 10/32 Thread	Flexible SST capillaries with 1/16" ends like AZF55-1	A9647
<b>Coupling for 2 capillaries with 1/16" OD, SST</b> , 0.5 mm bore, suitable for classical HPLC, incl. 2 fittings and ferrules SST	All 1/16" capillaries	A0117
<b>Capillary adapter to use with AZURA capillary guide</b> , for 1/16" and 1/32" inch capillaries, 5 pcs.	AZURA capillary guide	A2543

## Installation Guide

The **MarvelXACT™ connection system** is recommended for all connections in a standard AZURA Analytical system. It incorporates flexible 1/32" OD tubing to easily route through your system. The fitting is already installed on each capillary. It is compatible with KNAUER standard 1/16" receiving ports and is absolutely finger-tight so that no tools are required. Additionally, these fittings auto-adjust to various port depths and do not depend on ferrules. They seal at the bottom of the port, without complex techniques, which significantly reduces required torque.



The trouble-free connection system eliminates the risk of under- and over-tightening, with a patented torque-limiting mechanism. This unique feature provides a haptic "click" feedback when it reaches the optimum torque, assuring a perfect connection. These capillaries can be connected and disconnected more than 100 times.

The **flexible SST capillary in 900 mm length** for connection of systems with a longer distance between pump and autosampler is used with standard wrench-tight coned HPLC fittings. To install it, thread fitting onto capillary. Thread the ferrule onto capillary, flat side facing the nut. Screw everything into thread and tighten nut with 1/4-inch wrench with up to 5 Nm.



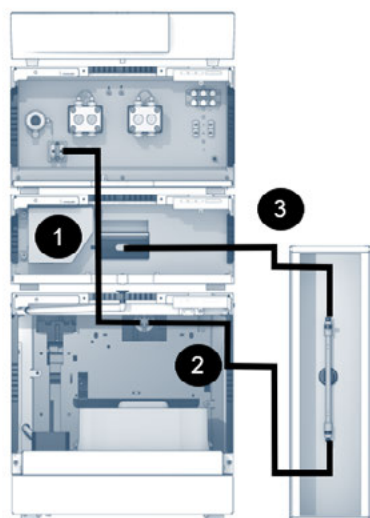
**Capillary adapters** to use with the AZURA capillary guide can optionally be installed at the sides or top and bottom of any AZURA L device. They are meant to fix analytical capillaries like 1/16" or 1/32" ones in the AZURA guide and make a fixed installation easier.



## Examples for Standard AZURA Analytical System Connections

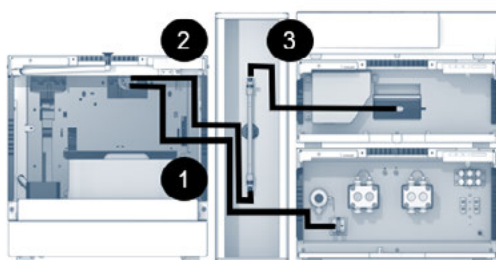
Please note that detectors and flow cells should often be connected using PEEK fittings. Flow cells are often limited in backpressure. Please take care to use a suited capillary. Make sure to use the best suited fitting by reading the manual or supplement of the detector/flow cell.

**System configuration 1:** AZURA Analytical with Autosampler and DAD build up as a tower



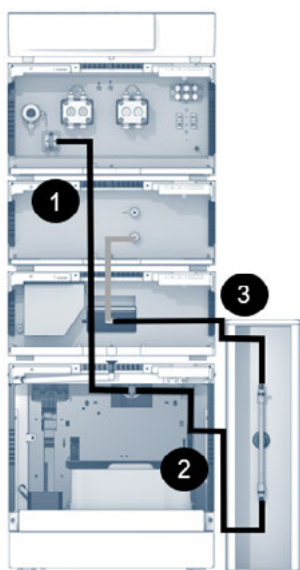
	Capillary for HPLC 862 bar systems		Capillary for ULDC and UHPLC systems	
	Length [mm]	ID [mm]	Length [mm]	ID [mm]
<b>1 Pump - Autosampler</b>	600	0.254	600	0.254
<b>2 Autosampler - Column</b>	600	0.125	500	0.075
<b>3 Column - Detector</b>	500	0.125	350	0.075

**System configuration 2:** AZURA Analytical with Autosampler and DAD in benchtop installation



	Capillary for HPLC 862 bar systems		Capillary for ULDC and UHPLC systems	
	Length [mm]	ID [mm]	Length [mm]	ID [mm]
<b>1 Pump - Autosampler</b>	900	0.180	900	0.180
<b>2 Autosampler - Column</b>	600	0.125	500	0.075
<b>3 Column - Detector</b>	500	0.125	350	0.075

**System configuration 2:** AZURA Analytical with Autosampler, DAD and RI detector



	Capillary for HPLC 862 bar systems		Capillary for ULDC and UHPLC systems	
	Length [mm]	ID [mm]	Length [mm]	ID [mm]
<b>1 Pump - Autosampler</b>	900	0.180	900	0.180
<b>2 Autosampler - Column</b>	600	0.125	500	0.075
<b>3 Column - Detector</b>	500	0.125	350	0.075
<b>Detector 1 - Detector 2</b>	No high backpressure, a standard PEEK capillary can be used. Alternatively, use a 350 mm length MarvelXACT™ in proper ID (not included in Start-up kit)			