



— Make Chromatographic Separation More Efficient

UHPLCS[®]



UHPL, HPLC, FAST LC

Biological, analysis, Drug analysis,
Traditional, Chinese, medicine, analysis
Environmental, analysis, Pesticide, residue, analysis
Carbohydrate, analysis, Organic, acid, analysis, Chiral, analysis

深圳市恒谱生科学仪器有限公司
UHPLCS Scientific Instruments Co.,Ltd.



COMPANY PROFILE

UHPLC Scientific Instruments Co., Ltd. Is a high-tech manufacturer committed to R & D and manufacturing of high-quality chromatography consumables. We have rich production experience and strong manufacturing technology capabilities in chromatographic column with high degree of separation and long service life, HPLC packing with good mechanical strength and uniform pore size, ultra-high pressure in-line filter, guard column, non-bubble solvent inlet filter, frit, empty HPLC column, air-resistor

We have been constantly optimizing the R&D and preparation capabilities and management system of our company, so as to better solve the customers' confusions in chromatographic analysis and purification and help them continuously improve chromatographic separation capacity and product competitiveness. Our products have been sold well in many developed analytical science economies around the world.

As a professional manufacturer of chromatographic consumables, UHPLCS looks forward to establishing a closer strategic partnership with customers and create a better future hand in hand!



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HPLC Column/Packing



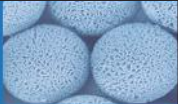
Preparation Grade
Medium-Pressure Chromatographic Packing

Semi-preparation Grade
Quick Chromatographic Packing

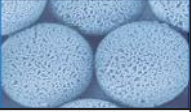
Analytic Grade
HPLC Packing

Industrial Grade
Chromatographic Packing

HPLC Column — Packing — USHA Series and USHB Series

HPLC Column Packing	Physical and Chemical Parameters						Features and Applications		Specifications of HPLC Column (mm)
	Particle Size (μm)	Pore Size (Å)	Carbon Content (%)	PH Stability	End-Capping	Separation Mode			
USHA C18	1.8 2 3 5 10 or even bigger particles	70, 100, 150, 200, 300 etc.	17	2~8	Yes	Reversed-phase	<ul style="list-style-type: none"> High selection and high separation. Widely used in the analysis of polar and hydrophobic substances, the first choice of all kinds of compounds. 	2.1×30 2.1×50 2.1×75	
USHA C18-BIO,5 10 μm, 100 Å			17.5	2~9	OneEnd-capping	Reversed-phase	<ul style="list-style-type: none"> Specially designed for the separation of variousalkaline compounds The pH tolerance range is 2~9. 	2.1×100 2.1×150	
USHA C18-T			17.5	2~10	Double End-capping	Reversed-phase	<ul style="list-style-type: none"> Designed for selective separation, aim for high quality separation and purification. 	3.0×30 3.0×50 3.0×100	
USHA C18-N			19	1.5~11	No	Reversed-phase	<ul style="list-style-type: none"> Unique bonding mode, can achieve 100% water phase condition. 	3.0×150 4.6×30	
USHA C18-AQ			16	2~8	Yes	Reversed-phase	<ul style="list-style-type: none"> C18 and polar group. 	4.6×50 4.6×100	
USHA C18-A			13	2~8	Yes	Reversed-phase	<ul style="list-style-type: none"> Low carbon content, suitable for separation of strongly polar and hydrophilic compounds 	4.6×150 4.6×250	
USHA C8			10	2~8	Yes	Reversed-phase	<ul style="list-style-type: none"> C8 has a relatively low hydrophobicity compared with C18 stationary, suitable for the separation of most hydrophobic compounds, more suitable for separating compounds with strong adsorption on C18 column. 	10×50 10×100 10×150 10×250	
USHA C4			3	2~8	Yes	Reversed-phase	<ul style="list-style-type: none"> Suitable for the separation of polar and hydrophob icsubstances in C18 and C8 separation for too long. 	20×50 20×200	
USHA Phenyl (USHA phenyl column)			12	2~8	Yes	Reversed-phase	<ul style="list-style-type: none"> π-π interaction shows selectivity difference from that 	20×150 20×250	
USHA NH2 (USHA amino column)			4	2~8	Yes	Normal-phase Reversed-phase	<ul style="list-style-type: none"> Strong polarity can be both positive and negative; The amino functional group provides a retention that allows the analysis of polar compounds under normal phase elution conditions. Organic compounds in monosaccharides and polyglycans/ olefines/aromatics can be analyzed by acetonitrile and water. In the buffer of low PH value, there is weak anion exchange which can separate some negatively charge^r molecules. 	21.2×150 21.2×250 30×150 30×250 50×150 50×250	

HPLC Column – Packing – USHA Series and USHB Series









HPLC Column Packing	Physical and Chemical Parameters						Features and Applications		Specifications of HPLC Column (mm)
	Particle Size (μm)	Pore Size (Å)	Carbon Content (%)	pH Stability	End-capping	Separation mode			
USHA CN (USHA cyan column)	1.8	70, 100, 150, 200, 300	6	2~8	Yes	Normal-phase Reversed-phase	<ul style="list-style-type: none"> • Medium polarity cyanogroup, can be used in both positive and negative phases. • The hydrophobicity is relatively low in the stationary phase of reversed-phase chromatography and shows a different selectivity from that of C18 due to the π-electron interaction of the cyanide group. • Suitable for separation of components that have been separated for too long on C18, and suitable on the occasion where it is very difficult to optimize the chromatogram on C18. • When very hydrophobic compounds cannot be eluted using standard C18 and C8 reversed-phase column, the most polarized inverting column can be a cyanide column. 	2.1×30	
	2							2.1×50	
	3							2.1×75	
	5							2.1×100	
	10							2.1×150	
USHA Diol	or even bigger particles	etc.	5	2~7	No	Normal-phase Hilic	<ul style="list-style-type: none"> • Separation of polar and basic compounds using silanol residues. 	3.0×30 3.0×50 3.0×100 3.0×150 4.6×30 4.6×50	
USHA SiL			--	1~7	Yes	Normal-phase Hilic	<ul style="list-style-type: none"> • <10ppm high purity spherical silica gel, very low metal impurities. • Can be used to separate polar and basic organic compounds, such as vitamins, steroids, and many other drug molecules. 	4.6×100 4.6×150 4.6×250 10×50 10×100 10×150	
USHB C18			17	2~8	Yes	Reversed-phase	<ul style="list-style-type: none"> • Excellent stability and repeatability, full cover bonded silica gel was used as packing. • High selectivity and high separation. 	10×250 20×50	
USHB C18-BIO	3 5	70,	20	1.5~10	Double End-capping	Reversed-phase	<ul style="list-style-type: none"> • Specially designed for the separation of all kinds of alkali compounds, the pH tolerance range can be 1.5-10. 	20×200 20×150	
USHB C18-AQ	7 9	120, 150,	14	2~8	Yes	Reversed-phase	<ul style="list-style-type: none"> • Low carbon content, suitable for separation of hydrophilic and polar compounds, and 100% pure water mobile phase. 	20×250 20×300 21.2×150	
USHB C8	10	200, 300,	10	2~8	Yes	Reversed-phase	<ul style="list-style-type: none"> • Suitable for separating most hydrophobic compounds 	21.2×250 30×150	
USHB SiL	or even bigger particles	etc.	--	1~7	No	Normal-phase Hilic	<ul style="list-style-type: none"> • High purity spherical silica gel (metal impurities <10ppm), with high column efficiency and good peak shape characteristics. • Can be used to separate polar and basic organic compounds 	30×250 50×150 50×250	

HPLC Column - Packing - USHA Series & USHB Series

- Suitable for the separation of most of chiral compounds
- Good separation & excellent durability
- Can be used for SFC optimal durability chromatography column
- Significant reduction in initial costs from analysis to large-scale preparation

Features



Chiral HPLC Column/Packing	Packing/Particle Size(Å)	Chirality Functional Group		Applications	Solvents Types	HPLC Column Specification (mm)
USHC AD	3	coated with amylose- \equiv (3,5-dimethylphenyl)	 Amylose (3,5-dimethylphenyl) coated on silica gel <chem>CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)O4</chem>	contains amides, aromatic ring substituents, carbonyl groups, nitro groups, sulfonyl groups, cyanide groups, hydroxyl groups,	normal phase N-hexane, n-heptane, methanol, ethanol, isopropanol, acetonitrile	2.1×30
						2.1×50
						2.1×75
						2.1×100
USHC AS	3	coated with amylose- \equiv [(S)-0-phenylethyl carbamate]	 Amylose ((S)-0-phenylethyl carbamate) coated on silica gel <chem>CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)O4</chem>			3.0×30
						3.0×50
USHC AY	5	coated with amylose- \equiv (5-chloro-2-methylphenyl carbamate)	 Amylose (5-chloro-2-methylphenyl carbamate) coated on silica gel <chem>CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)O4</chem>			4.6×30
						4.6×50
USHC AZ	10	coated with amylose- \equiv (3-chloro-4-methylphenyl carbamate)	 Amylose (3-chloro-4-methylphenyl carbamate) coated on silica gel <chem>CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)O4</chem>			4.6×100
						4.6×150
USHC OD	20	coated with cellulose- \equiv (3,5-dimethylphenyl carbamate)	 Cellulose (3,5-dimethylphenyl carbamate) coated on silica gel <chem>CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)O4</chem>	10×50		
				10×100		
USHC OJ	20	coated with cellulose- \equiv (4-methylbenzoate)	 Cellulose (4-methylbenzoate) coated on silica gel <chem>CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)O4</chem>	10×150		
				10×250		
USHC OZ	20	coated with amylose- \equiv (3-chloro-4-methylphenyl carbamate)	 Amylose (3-chloro-4-methylphenyl carbamate) coated on silica gel <chem>CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)O4</chem>	20×200		
				20×250		
				20×300		
				21.2×150		
USHC OZ	20	coated with amylose- \equiv (3-chloro-4-methylphenyl carbamate)	 Amylose (3-chloro-4-methylphenyl carbamate) coated on silica gel <chem>CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)O4</chem>	21.2×250		
				30×150		
				30×250		
				50×150		
USHC OZ	20	coated with amylose- \equiv (3-chloro-4-methylphenyl carbamate)	 Amylose (3-chloro-4-methylphenyl carbamate) coated on silica gel <chem>CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)O4</chem>	50×250		

USHA C18-G

A new generation of ODS column with organosilicone mixed matrix

- Unique excellent separation selectivity of silica gel C18.
- Excellent acid and alkali resistance. Effective effect on various types of compounds.
- Durability, good peak shape display, reproducibility and low pressure.
- It is a liquid chromatography column suitable for a particularly wide range




Particle Size	5 μ m, 10 μ m
Pore size	100 Å
Carbon Content	18%
End Capping	One time end-capping
pH	1~12
Temperature	pH 1~7, 70°C pH 7~12, 50°C

- Suitable for a variety of new and old equipment under lower pressure.
- Convenient to use high viscosity solvents like methanol as eluent.
- Injection volume can be more than twice as much as previous products when dissolving samples in highly soluble solvents such as acetonitrile.

For Clemastine and other alkalic compounds that tend to form tails and are difficult to analyze, it is easy to obtain a good peak shape without tails by using USHA C18-G column. Can be used over a wide pH range (1-12), especially in strong alkali or high temperature conditions. The service life of chromatographic column is more than several times that of the general alkaline-resistant(mixed) C18 column on the market. Good acid resistance. The performance will be better if used together with UHPLCS guard column. High versatility. The first choice of insulin. Widely used in the analysis of polar substances and hydrophobic substances.

HPLC Column Specification (mm)	
2.1*30、2.1*50、2.1*75、2.1*100、2.1*150	3.0*30、3.0*50、3.0*100、3.0*150
4.6*30、4.6*50、4.6*100、4.6*150、4.6*250	10*50、10*100、10*150、10*250
20*50、20*200、20*150、20*250、20*300	21.2*150、21.2*250
30*150、30*250	50*150、50*250



HPLC Column Empty HPLC Column



- Carefully designed for easy cleaning and maintenance operation
- Small dead volume and smooth tube inner wall
- Ensured high performance of the finished products of HPLC column; High degree of reproducibility
- Complete specifications, from analysis to preparation

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Empty HPLC Column 30# /50#



Length: 100-150-200-250-300-500-1000 (mm)

Empty HPLC Column 20#



Length: 50-100-150-200-250-300-500-1000-1100 (mm)

Empty HPLC Column 7.8# /10#



Length: 20-30-50-75-100-150-200-250-300 (mm)

Empty HPLC Column 4.6# (Sheet Frit Type)



Length: 30-33-50-100-150-250-300 (mm)

Empty HPLC Column 4.6# (PEEK Cup Frit Type)



Length: 30-33-50-100-150-250-300 (mm)

Empty HPLC Column 4.0#



Length: 30-33-50-100-150-250-300 (mm)

Empty HPLC Column 3.0#



Length: 30-50-100-150-250 (mm)

Empty HPLC Column 2.1#



Length: 30-50-75-100-150-250 (mm)

Empty HPLC Column 2.1# (Ultra-high Pressure Type)



Length: 30-50-75-100-150-250 (mm)

Column Frit

Column Frit 2.1#



Specification

Stainless Steel
(Ultra-high Pressure Type)
0.2, 0.5, 2 μ
PEEK (Ordinary Type)
2 μ

Column Frit 3.0#



Specification

Stainless Steel
0.2, 0.5, 2 μ
PEEK
2 μ

Column Frit 4.0#



Specification

PEEK (Big Hole)
0.5, 2, 5, 10, 15, 20 μ
PEEK (Small Hole)
0.5, 2, 5, 10, 15, 20 μ

Column Frit 4.6#



Specification

PEEK (Big Hole)
0.5, 2, 5, 10, 15, 20 μ

PEEK (Small Hole)
0.5, 2, 5, 10, 15, 20 μ

Stainless Steel+PEEK Frit
0.5, 2, 5, 10, 15, 20 μ

Column Frit 10#



Specification

PEEK (Big Hole)
0.5, 2, 5, 10, 15 μ

Column Frit 20#/30#/50#



Specification

PEEK (Column Frit Type)
0.5, 2, 5, 10, 15, 20 μ

PEEK (Frit Type)
0.5, 2, 5, 10, 15, 20 μ

Frit DAC#



Specification

Sintered Stainless Steel
(Filter pores can be customized)

0.5, 2, 5, 10
15, 20, 30, 40 μ

Empty HPLC Column Set



Column Inner Diameter

2.1 3.0 4.0 4.6 7.8 10 20 30 50

Length

20 30 50 100 150 250

Polishing Brightness

0.1 μ internal surface roughness, highlight

Column Frit



Applicable Inner Diameter of Column

Big Hole Type: 4.6/7.8/10/20/30/50



Applicable Inner Diameter of Column

Small Hole Type: 2.1/3.0/4.0/4.6/7.8/10

Analytical Guard Column

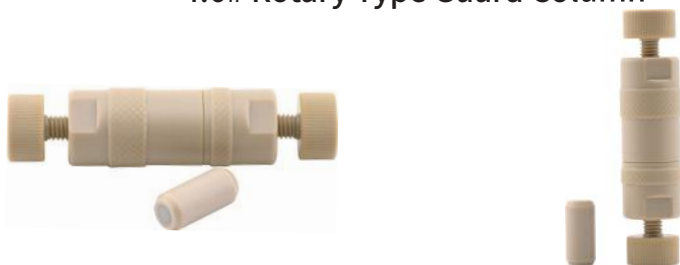


Analytical Guard Column

2.1#/ 3.0#/ 4.6# Directly-connected Guard Column



4.6# Rotary Type Guard Column



4.6# PEEK Guard Column



10# Semi-preparation Guard Column

Analytical Guard Column



▷ Very little dead volume

▷ In addition to protecting the column, it can greatly reduce the spectral band broadening caused by extra-column effect compared with other guard columns

▷ The middle connection tubing and thread fitting are omitted which is more convenient and easy to operate

▷ Smaller, almost zero back-pressure

▷ Lower (minimal) costs of cartridge

▷ Reduce flow path diffusion

▷ Improving sensitivity and separation of chromatographic analysis

HPLC Guard Cartridge



Guard Column Optional HPLC Column Inner Diameter (ID) (mm)

2.0—3.0

UPLC

2.1—8.0

Analytical HPLC



Ultra-high Pressure



Used Column Cartridge (mm)

2.1×4.0



2.1#

2.1×20.0



3.0×4.0



3.0#

4.6×15.0



PEEK

4.6×10.0



4.6#



Guard Column Optional HPLC Column Inner Diameter (ID) (mm)

9.6 — 16.0

Semi-preparation

18.0 — 29.0

Preparation

30.0 — 49.0



Used Column Cartridge (mm)

10.0×10.0



10#



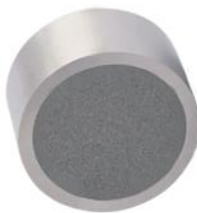
21.2×15



20#



30×15



30#



Preparation Guard Column

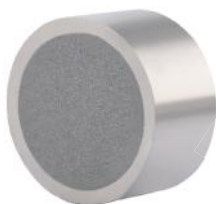


Preparation Guard Column

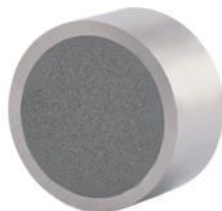
Protect your HPLC column from chemical contaminants!

Away from: wide peak, split peak, high back-pressure, low degree of separation, baseline noise drift.

20#



30#



HPLC In-line Filter



UHPLCS®

— HPLC In-line Filter —

- Good corrosion resistance
- Easy to clean or replace
- Not easy to block, with long service life
- Less dead volume, no leakage, low back-pressure

www.uhplcs.com

UPLC In-line Filter _____

Analytical Inline Filter _____

Preparation In-line Filter _____



HPLC In-line Filter

Intercept the smallest particles >
(0.5 μ m, 2 μ m, 5 μ m, optional) in the mobile phase
Let the injection valve, column, detector no longer break down!

Ultra-high Pressure UPLC

Suitable for HPLC Column Inner Diameter ID: 2.1mm



Specification

2.1#

0.2 μ m, 0.5 μ m, 2 μ m

Analytical HPLC

Suitable for HPLC Column Inner Diameter ID: 2.1-8.0mm



3.0#

0.2 μ m, 0.5 μ m, 2 μ m



4.6#

0.5 μ m, 2 μ m,
5 μ m, 10 μ m, 20 μ m



4.6#

0.5 μ , 2 μ ,
5 μ , 10 μ , 20 μ

Suitable for HPLC Column Inner Diameter ID: 9.6-16.0mm

Semi-preparation
HPLC



10#

0.5 μ , 2 μ ,
5 μ , 10 μ , 20 μ

Preparation HPLC

Suitable for HPLC Column Inner Diameter ID: 18.0-29.0mm



20#

0.5 μ , 2 μ ,
5 μ , 10 μ , 20 μ

Suitable for HPLC Column Inner Diameter ID: 30.0-49.0mm



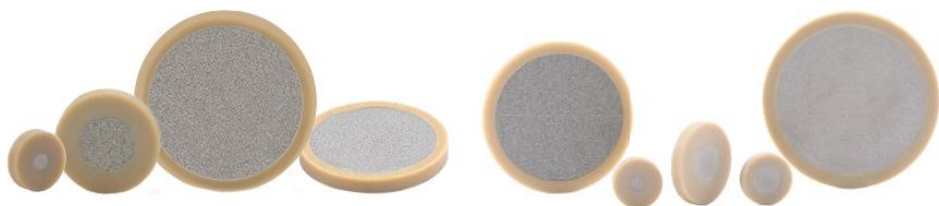
30#

0.5 μ , 2 μ ,
5 μ , 10 μ , 20 μ

PEEK/Stainless Steel Frit



PEEK/Stainless Steel Frit



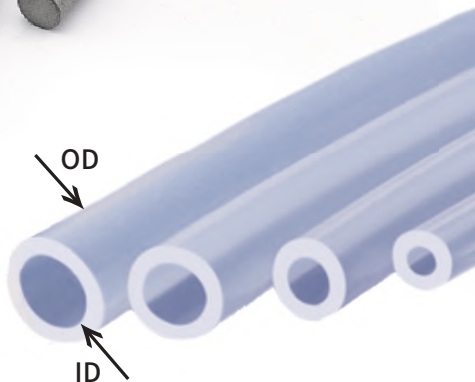
0.2 μ , 0.5 μ , 2 μ , 5 μ , 10 μ , 20 μ



Specification

OD(Outer Diameter) mm	ID (Inner Diameter)mm	H(Height)mm
6.4	1.6	1.6
	2.4	
6.5	3.2	1.6
14.4	12.0	
19.1	15.8	
22.4	19.0	
38.0	33.0	2.0

Inlet Solvent Filter



Inlet Solvent Filter

- * Low suction and filtration resistance
- * Good corrosion resistance, suitable for various solvents



Specification (PEEK+Stainless Steel)

Applicable Tubing Specification	Size
OD:1/16" 1/8"	D9.5 × L33.0
	D12.7 × L28.5
	D12.7 × L32.2
OD:1/8" 3/16"	D17.0 × L23.6
OD:1/8" 1/4"	D25.0 × L58.5

2μ, 5μ, 10μ, 20μ



Inlet Solvent Filter



OD:1/16" 1/8"
D12.7
2μ, 5μ, 10μ, 20μ



ID:2.2 Steps
OD: 1/8" Steps
D23.5 X L5.4
2μ, 5μ, 10μ, 20μ



OD:1/16"
D12.0
2μ, 5μ, 10μ, 20μ



OD:1/8"
D12.0
2μ, 5μ, 10μ, 20μ

Applicable Tubing
Specification

Size

ID:1.5-2.2-3
3 Steps

D12.7 × L28.5

2μ, 5μ, 10μ, 20μ

ID:2-2.5-3
3 Steps

D12.7 × L28.5

D19.7 × L30.0

ID:1.5-1/16"-2.2
-3.0-1/8"-3.5
Multiple Steps

D12.7 × L28.5
Analysis

2μ, 5μ, 10μ, 20μ, 30μ

ID:1/8"-1/6"-3/16"
(3.0-4.0-5.0)
Multiple Steps

D25.0 × L35.0
Preparation



*Compatible with a variety of mobile phase tube lines

*No bubble, solvent utilization rate of 99%

Inlet Solvent Filter

Specification

Applicable Tubing Specification

Size

ID:1/16" Step

D10.0 × L19.5

D12.7 × L28.5

ID:1/8" Step

D12.0 × L20.0

D16.0 × L32.0

ID:1/6" Step

D25.0 × L52.7

2μ, 5μ, 10μ, 20μ



ID:1/8" Step

D12.7 × L28.5

D19.7 × L30.0

ID:3/16" Step

D25.0 × L30.0

D25.0 × L40.0

2μ, 5μ, 10μ, 20μ





Ghost Peak Trapping Removal Column



Ghost Peak Trapping Removal Column

The Hazards of Ghost Peak

- Misjudgment of sample composition
- Instrument contamination
- Overlap with the target peak affecting the separation degree
- Increase the workload to do more validation work to determine if the substance is the target substance

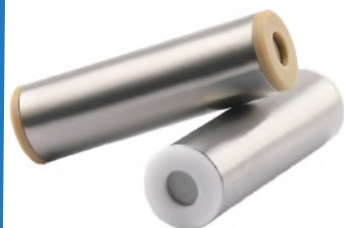
The Source of the Ghost peak

- Impurities enter the mobile phase in many ways
- Effect of sample inlet silicone pad
- The polarity (or pH) of the sample dilution is too different from that of the mobile phase
- Residual bubbles in mobile phase
- The instrument system is old and no longer pure

Ghost Peak Trapping Removal Column developed by UHPLCS can effectively capture mobile phase and ghost peaks generated in the pipeline and mixing process, eliminating the interference of ghost peaks on method validation and analysis of trace and trace substances, greatly shortening the research and development time of personnel. Installed between the gradient mixer and the injector, it can not only remove impurities in the mobile phase, but also effectively remove the tube impurities in circuits and mixers.

Column Cartridge

Size	Volume	Pressure
2.1mmID×20mm	about 40μL	≦100MPa
4.0mmID×20mm	about 150μL	≦35MPa
7.6mmID×30mm	about 700μL	



Air-resistor/Tubing Fitting



Air-resistor



Air-resistor

Model	Specification	Product Picture
AR-31-58-6500-005	$\Phi 3.17 * H 3.17$	
AR-49-60-0220-100	$\Phi 4.9 * H 5.85$ M5*0.8 Thread	
AR-08-60-4500-005	$\Phi 8 * H 22.5$	
AR-63-60-1100-600	$\Phi 6.34 * H 6.35$	
AR-41-58-5500-005	$\Phi 3.17 * H 4.17$	

Air-resistor

Model	Specification	Product Picture
AR-08-60-1000-800	$\Phi 8 \times H27$ UNF 10-32 "Thread	
AR-08-60-0400-300	$\Phi 8 \times H27$ UNF 10-32 "Thread	
AR-09-60-6700-005	$\Phi 9.9 \times H6.05$ M10*1 Thread	
AR-15-10-5920-174	$\Phi 15 \times H30$ Inner Bore $\Phi 6$ M 8.5*1.0 Thread	

Tubing Fitting: Threaded Adapter Reducing Union/Multi-way Connector/Tubing/Valve



PEEK Tubing	OD1/16" × 0.13mmID	OD1/16" × 0.18mmID
	OD1/16" × 0.25mmID	OD1/16" × 0.5mmID
	OD1/16" × 0.75mmID	OD1/16" × 1.0mmID

for **OD1/16"** tubing

UNF 10-32" thread

for **OD1/8"** closed tubing

UNF 1/4-28" thread

for **OD1/16"** closed tubing

UNF 10-32" thread

UNF 10-32" thread
Reducing Union
M8X1.0

for **OD1/16"** tubing
UNF 10-32" thread

for **OD1/8"** tubing
UNF 1/4-28" thread

Tubing Fitting: Threaded Adapter Reducing Union/Multi-way Connector/Tubing/Valve



1/4"

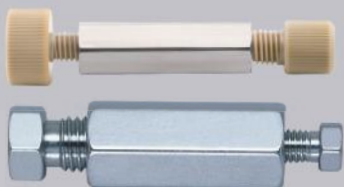
1/8"

1/16"

1/32"

UNF 10-32"

UNF 1/4-28"



1/4" to 1/8"

1/8" to 1/32"

1/8" to 1/16"

1/4" to 1/16"

1/16" to 1/32"

UNF10/32" to M8×1.0

1/4"

1/8"

UNF 10/32" to UNF 1/4-28"

UNF 10/32" to M10×1.0

1/16"

1/32"



Manifolds Vacuum Filtration Apparatus



Manifolds Vacuum Filtration Apparatus



3-branch



6-branch

Needle Tubing Solvent Filter



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