

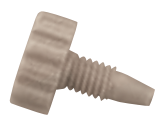
CONSUMABLES AND SUPPLIES

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HPLC Fittings and Connectors

PEEK Tough Connectors™



PEEK Fingertight Fitting



PEEK Fingertight Fitting Type Wing



PEEK Fingertight Fitting Long Type



PEEK Fingertight Fitting Plug

Maximum operating pressure of these PEEK fittings are 21.5 MPa with finger tightening; Threads is 10-32UNF which suits for popular 10-32 coned receiving ports.

Specifications

Tube O.D.: 1/16 in.
Max. operating pressure: 21.5 MPa
Threads: 10-32 UNF
Material: PEEK

PEEK Tough Fittings

The nut is ferrule all-in-one type and select a nut depending on the applications.

Description	Qty.	Cat.No.
PEEK Fingertight Fitting	5 pcs	6010-48600
PEEK Fingertight Fitting Wing Type	5 pcs	6010-48601
PEEK Fingertight Fitting Long Type	5 pcs	6010-48602
PEEK Tough Plug	5 pcs	6010-48800

PEEK Tough Unions

Description	Orifice Diameter	Qty.	Cat.No.
PEEK Union	0.8 mm	3 pcs	6010-48620
	0.5 mm	3 pcs	6010-48621
	0.25 mm	3 pcs	6010-48622



PEEK Union

PEEK Tees (3 way)

Description	Orifice Diameter	Qty.	Cat.No.
PEEK Tee	0.8 mm	1 pc	6010-48630
	0.5 mm	1 pc	6010-48631
	0.25 mm	1 pc	6010-48632



PEEK Tee

PEEK Crosses (4 way)

Description	Orifice Diameter	Qty.	Cat.No.
PEEK Tough Cross	0.8 mm	1 pc	6010-48640
	0.5 mm	1 pc	6010-48641
	0.25 mm	1 pc	6010-48642



PEEK Cross

SAMPLE PREPARATION

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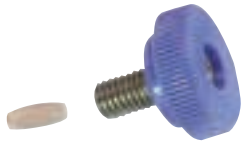
GC ACCESSORIES

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HPLC Fittings and Connectors

Super PEEK Tough Connectors



Super Tough PEEK Fitting



Super Tough PEEK Set

The nut part is made of stainless steel and is easy to tighten by hand. It has higher pressure resistance than PEEK fitting. The ferrule has superior chemical resistance.

Specifications

- Tube O.D.: 1/16 in.
- Max. operating pressure: 34.3 MPa
- Threads: 10-32 UNF
- Material: Stainless steel (Nut), PEEK (Ferrule)

Super PEEK Tough Connector™

Description	Qty.	Cat.No.
Super PEEK Tough Connector	1 set	6010-48710
Spare PEEK Double Ferrule	5 pcs	6010-41400

Super PEEK Tough Set

Description	Cat.No.
PEEK Tough Nut x 10 pcs / PEEK Tough Plug x 5 pcs / PEEK Tough Union x 3 pcs / PEEK Double Ferrule x 5 pcs / Super PEEK Tough Connector x 1 pc	6010-48910

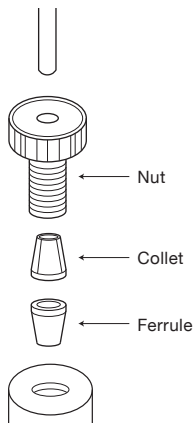
Super Tough Connectors



Ferrule

Collet

Super Tough Fitting



Nut

Collet

Ferrule

The nut and collet are made of stainless steel, the ferrule is made of resin. The resin ferrule does not deform the tubing and locks securely with the collet. Pressure resistance up to 41.3 MPa can be achieved with hand tightening.

Specifications

- Tube O.D.: 1/16 in.
- Max. operating pressure: 41.3 MPa
- Threads: 10-32 UNF
- Material: Stainless steel (Nut, Collet), PEEK (Ferrule)

Super Tough Connector™

Description	Detail	Qty.	Cat.No.
Super Tough Fitting	Nut, Collet, Ferrule (1 pc of each)	1 set	6010-48700
Spare PEEK Tough Ferrule	Ferrule	10 pcs	6010-41300

Super Tough Set

Description	Cat.No.
PEEK Tough Ferrule x 10 pcs / PEEK Tough Nut x 10 pcs / PEEK Tough Plug x 5 pcs / PEEK Tough Union x 3 pcs / Super Tough Connector x 1 set	6010-48905

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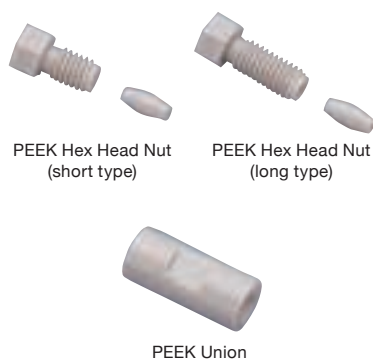
HPLC Fittings and Connectors

PEEK Fittings, Union

The PEEK fittings can be tightened with wrenches. These fittings are a set of 5 nuts and 5 PEEK double ferrules.

Specifications

Tube O.D.: 1/16 in.
 Threads: 10-32 UNF
 Head Dimension: 1/4 in.
 Material: PEEK



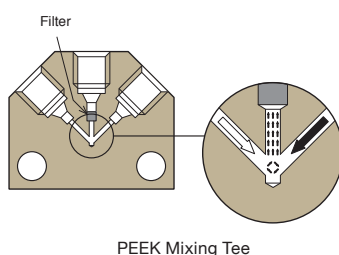
PEEK Hexagonal Head Nuts (for tightening with wrench)

Description	Qty.	Cat.No.
PEEK Hexagonal Head Nut, Short Type 1/16 in.	5 pcs	6010-48720
PEEK Hexagonal Head Nut, Long Type 1/16 in.	5 pcs	6010-48730
PEEK Double Ferrule (Replacement Ferrule)	5 pcs	6010-41400

PEEK Union (for tightening with wrenches)

Description	Orifice Diameter	Qty.	Cat.No.
PEEK Union	0.3 mm	3 pcs	6010-48740

PEEK Mixing Tee



PEEK Mixing Tee

Titanium filter (10 µm) is installed at the outlet to increase mixing efficiency.

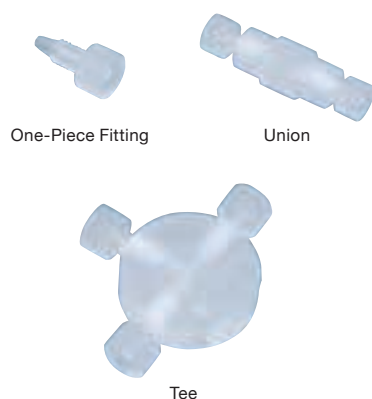
Description	Specification	Qty.	Cat.No.
PEEK Mixing Tee	with PEEK Fittings	1 pc	6010-48650

PCTFE Connectors

These connectors are easy to use and suitable for attaching a column by finger tightening. Select a type depending on applications.

Specifications

Tube O.D.: 1/16 in.
 Max. Operating Pressure: 9.8 MPa
 Threads: 10-32 UNF
 Material: PCTFE
 Allowable Operating Temp. Range: -20 °C~120 °C



PCTFE Tough Connectors™

Description	Specification	Qty.	Cat.No.
One-Piece Fitting FA	With Bushing & Ferrule	5 pcs	6010-47010
Plug FA	-	5 pcs	6010-47020
Union FA	Body only	3 pcs	6010-47110
Tee FA	Body only	1 pc	6010-47210

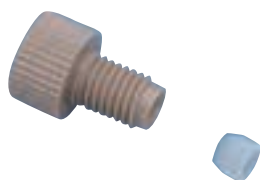
Flangeless Fittings

Flangeless fittings can be connected to the flange type receiving port without flange tubing. They can be used not only for PTFE tube but also SUS and PEEK tubes too.

Specifications

Threads: 1/4-28 UNF

Material: PEEK (Nut), ETFE (Ferrule)



Flangeless Nut 1/8 in.



Flangeless Fitting Set

Flangeless Fittings

Description	Specification	Qty.	Cat.No.
Flangeless Nut 1/16 in.	Nut, Ferrule	5 sets	6010-46350
Flangeless Nut 1/8 in.	Nut, Ferrule	5 sets	6010-46360
Flangeless Ferrule 1/16 in.	Ferrule	10 pcs	6010-46370
Flangeless Ferrule 1/8 in.	Ferrule	10 pcs	6010-46380

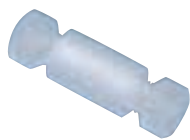
Flangeless Fitting Set

Description	Qty.	Cat.No.
Flangeless Nut 1/16 in.	10 pcs of each	6010-46390
Flangeless Nut 1/8 in.	10 pcs of each	
Flange Union	5 pcs	
Flange Plug	5 pcs	
Handy Cutter JC-2	1 pc	
Tube Clip	5 pcs	

Flanged Connectors



Flanged Fitting



Union



Tee



Cross

These fittings are used to connect the PTFE tubing of 0.5 ~ 2 mm I.D.

Specifications

Threads: 1/4-28 UNF

Material: PCTFE

Flanged Fittings

Description	Qty.	Cat.No.
Flanged Fittings for 1/16 in. O.D. Tubing	5 pcs	6010-46010
Flanged Fittings for 2.0 mm O.D. Tubing	5 pcs	6010-46020
Flanged Fittings for 1/8 in. O.D. Tubing	5 pcs	6010-46030
Plug	5 pcs	6010-46040

Union

This Union is used to connect two flanged PTFE tubing butt to butt, without dead volume. 1/16 in., 2mm and 1/8 in. O.D. tubing are allowed to connect.

Description	Qty.	Cat.No.
Flanged Fitting Union	5 pcs	6010-46110

Note: Flanged Fitting is not included.

Tees (3 way)

Description	Qty.	Cat.No.
Flanged Fitting Tee for 1/16 in. O.D. Tubing	1 pc	6010-46210
Flanged Fitting Tee for 1/8 in. O.D. Tubing	1 pc	6010-46220

Note: Flanged Fitting is not included.

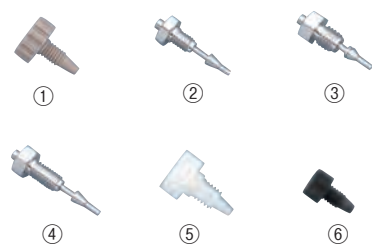
Crosses (4 way)

Description	Qty.	Cat.No.
Flanged Fitting Cross for 1/16 in. O.D. Tubing	1 pc	6010-46310
Flanged Fitting Cross for 1/8 in. O.D. Tubing	1 pc	6010-46320

Note: Flanged Fitting is not included.

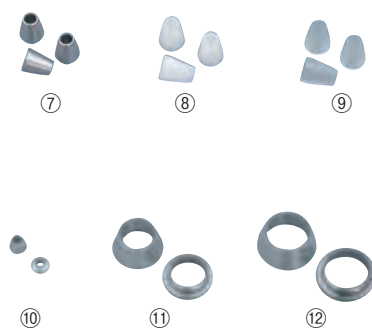
HPLC Fittings and Connectors

Plugs



Model	Type	Material	Qty.	Cat.No.
① Plug W	Common inch Bushing	PEEK	5 pcs	6010-48800
② CB-7	Common inch Bushing	SUS	5 pcs	6010-63010
③ CB-3	Hitachi mm Bushing		5 pcs	6010-63410
④ CB-5	JASCO Bushing		5 pcs	6010-63610
⑤ Plug H	Hitachi mm Bushing	Delrin	5 pcs	6010-63420
Plug N	JASCO Bushing		5 pcs	6010-63220
⑥ Plug EX	Inertsil Columns		5 pcs	6010-63810

Ferrules



Model	Description	Tubing O.D.	Material	Qty.	Cat.No.
1/16 FP	–	1/16 in.	PEEK	10 pcs	6010-41300
⑦ 1/16 FS	One Ring Ferrule		SUS	10 pcs	6010-41200
⑧ 1/16 FT			PTFE	10 pcs	6010-41210
⑨ 1/16 FD			PCTFE	10 pcs	6010-41220
⑩ 1/16 LF	Double Ring Ferrule	1/16 in.	SUS	10 pcs	6010-41010
1/8 LF		1/8 in.		10 pcs	6010-41020
⑪ 1/4 LF		1/4 in.		10 pcs	6010-41030
⑫ 3/8 LF		3/8 in.		10 pcs	6010-41040
6 LF		6 mm		10 pcs	6010-41050
8 LF		8 mm		10 pcs	6010-41060
10 LF		10 mm		10 pcs	6010-41070

SUS Connectors



Material: SUS
Screw Standard: 10-32 UNF

Model	Description	Screw Standard & Tubing O.D.	Qty.	Cat.No.
1/16 OJ	Nut	1/16 (N)	10 pcs	6010-43010
1/16 OW		1/16 (W, ON, OS, T)	10 pcs	6010-43020
1/16 OH		1/16 (H)	10 pcs	6010-44210
1/16 OUN	Union	1/16-1/16 (N)	3 pcs	6010-43110
1/16 OUW		1/16-1/16 (W)	3 pcs	6010-43120
1/16 OUC		1/16-1/16 (ON)	3 pcs	6010-43130
1/16 OUZ		1/16-1/16 (OS)	3 pcs	6010-44810
1/16 OTW	Tee	1/16-1/16-1/16 (W)	1 pc	6010-43210
1/16 OFW	Cross	1/16-1/16-1/16-1/16 (W)	1 pc	6010-43310
1/16 OJW	Tighten Connector	1/16-M8×1 (W)	3 pcs	6010-43400

W, Waters Nut; ON, JASCO nut; OS, Shimadzu nut; T, Tosou nut; H, Hitachi mm nut.
Note: Unions, Tees, Cross and tighten joints including nuts and ferrules.

HPLC Fittings and Connectors (IDEX Products)

VHP Fittings for UHPLC



VHP-320x



VHP-325x



VHP-920x



VHP-300x



VHP-305x



VHP-310x

Features

- Designed for modern UHPLC systems
- Proprietary PEEK polymer blended is used for ferrules
- Original materials of construction for UHPLC analysis
- Pressure Rating: 137 MPa (1,380 bar, 20,000 psi), 172 MPa (1,720 bar, 25,000 psi)
- Available for use of 1/16 in. and 1/32 in. O.D. tubing

Description	P/N	Pressure Rating	Thread	Hex Head Size	Qty.	Cat.No.	
1/16 in. Fittings	VHP-320	172 MPa	10-32	1/4 in.	1 pc	6010-77007	
	VHP-320x				10 pcs	6010-77006	
VHP 1/16 in. Long Type Fittings	VHP-325		10-32	1/4 in.	1 pc	6010-77009	
	VHP-325x				10 pcs	6010-77008	
1/32 in. Fittings	VHP-920		M4	4 mm	1 pc	6010-77011	
	VHP-920x				10 pcs	6010-77010	
1/16 in. Fittings	VHP-300		137 MPa	10-32	1/4 in.	1 pc	6010-77001
	VHP-300x					10 pcs	6010-77000
VHP 1/16 in. Long Type Fittings	VHP-305			10-32	1/4 in.	1 pc	6010-77003
	VHP-305x					10 pcs	6010-77002
1/16 in. Fittings	VHP-310	10-32		8 mm	1 pc	6010-77005	
	VHP-310x				10 pcs	6010-77004	

VHP PK Fittings for UHPLC



PK-120BLKx



PK-195x



PK-196x



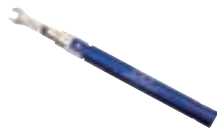
PK-110 with PK-100 for 1/16 in.



PK-110 with PK-132 for 1/32 in.

Description	P/N	Pressure Rating	Thread	Qty.	Cat.No.
1/16 One-Piece Fitting	PK-120BLKx	82.7 MPa	10-32	10 pcs	6010-77015
1/16 PEEK Nut	PK-195x	75.8 MPa	10-32	10 sets	6010-77013
1/16 PEEK Long Type Fitting	PK-196x	75.8 MPa	10-32	10 sets	6010-77014
1/16 PEEK Nut	PK-110x	113.8 MPa	10-32	10 pcs	6010-77021
1/16 PEEK Ferrule	PK-100x	113.8 MPa	10-32	10 pcs	6010-77020
1/32 PEEK Ferrule	PK-132x	113.8 MPa	10-32	10 pcs	6010-77022

Tightening Tools for VHP Fittings



VHP-1000



P-291

For connect VHP fittings, tighten them with a VHP-1000, -3000, -9000 or P-291.

Description	P/N	Head Type	Qty.	Cat.No.
VHP Torque Tool	VHP-1000	1/4 in. Hex Head	1 pc	6010-77050
	VHP-3000	8 mm Hex Head	1 pc	6010-77053
	VHP-9000	4 mm Hex Head	1 pc	6010-77055

SAMPLE PREPARATION

LIFE SCIENCE

LC ACCESSORIES

AIR SAMPLING

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HPLC Fittings and Connectors (IDEX Products)

■ Sure-Fit Connectors



Sure-Fit connector gives you a perfect fit in nearly every 10-32 coned receiving port, every connection, every time. It has a unique internal spring-tensioned mechanism that automatically self-adjusts to virtually any port depth while maintaining constant pressure on the 1/16 in. O.D. tubing.

● Specifications

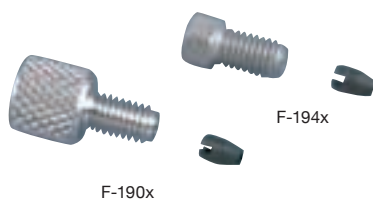
Thread : 10-32 UNF
 Maximum Operating Pressure: 41.4 MPa (414 bar, 6,000 psi)
 Fingertight

P/N	Details	Qty.	Cat.No.
9500-01005-010	1/16 in. x 0.005 in. x 10 cm	1 set	6010-72101
9500-01007-010	1/16 in. x 0.007 in. x 10 cm	1 set	6010-72102
9500-01010-010	1/16 in. x 0.010 in. x 10 cm	1 set	6010-72103
9502-01007-HP	1/16 in. x 0.007 in. U-Shape for Agilent 1100 System	1 set	6010-72105
9504-01005-050	1/16 in. x 0.005 in. x 50 cm	1 set	6010-72111
9504-01007-050	1/16 in. x 0.007 in. x 50 cm	1 set	6010-72112
9504-01010-050	1/16 in. x 0.010 in. x 50 cm	1 set	6010-72113

■ Two-Piece SealTight Fingertight Fittings

● Specifications

Designed to connect 1/16 in. O.D. tubing
 For 10-32 coned ports
 Hold up to 9,000 psi (620 bar)
 Two-Piece SealTight Fingertight Fittings (Includes F-192x Ferrule)



P/N	Description	Material	Qty.	Cat.No.
F-193x	Hex Head-short Nuts	PEEK	10 pcs	6010-72302
F-195x	Short Nuts	PEEK	10 pcs	6010-72304
F-196x	Long Nuts	PEEK	10 pcs	6010-72305
F-350x	Flash Nuts	Stainless	10 pcs	6010-72311

Note: F-350x does not include F-192x ferrules.

Replacement Ferrules

Available O.D. Tubing: 1/16 in.



P/N	Description	Material	Qty.	Cat.No.
F-192x	SealTight Ferrule	PEEK	10 pcs	6010-72301

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HPLC Fittings and Connectors (IDEX Products)

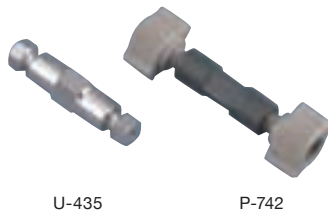
Quick Connect Luer Adapters



The following adapters are used for connecting 2 different joints.

P/N	Detail	Material	Material of Nut	Qty.	Cat.No.
P-624	Female Luer, 1/4-28 Flange Male	ETFE	-	5 pcs	6010-72005
P-625	Male Luer, 1/4-28 Flange Male	ETFE	-	5 pcs	6010-72006
P-628	Female Luer, 1/4-28 Flange Male	ETFE	-	5 pcs	6010-72007
P-642	Female Luer, 10-32 Nut Male	ETFE	-	5 pcs	6010-72010
P-655	Male Luer lock, 1/4-28 Flange Male	PEEK	PEEK	1 pc	6010-72016
P-656	Male Luer lock, 10-32 Nut Male	PEEK	PEEK	1 pc	6010-72017
P-658	Female Luer, 1/4-28 Flange Male	PEEK	-	1 pc	6010-72019
P-659	Female Luer, 10-32 Nut Male	PEEK	-	1 pc	6010-72020
P-675	Male Luer lock, 1/4-28 Flange Male	ETFE	PP	5 pcs	6010-72023
P-678	Female Luer, 1/4-28 Flange Male	ETFE	-	5 pcs	6010-72025
P-683	Male Luer lock, 1/4-28 Flange Male	PEEK	PEEK	1 pc	6010-72027
P-686	Female Luer, M6 Flange Male	ETFE	-	5 pcs	6010-72028

Zero-Dead-Volume Unions



Specifications

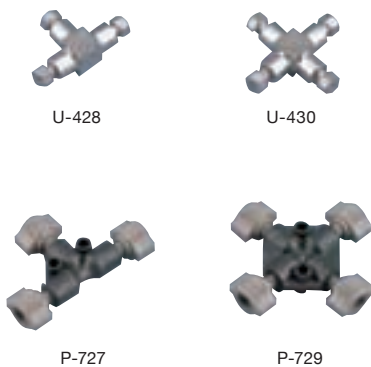
Allowable Tubing O.D.: 1/16 in.

Max. Operating pressure: 137.8 MPa (SUS), 41.4 MPa (PEEK)

P/N	Description	Nut Standard	Orifice Diameter	Qty.	Cat.No.
U-411	SUS ZDV Union	10-32 UNF	178 µm	1 pc	6010-72351
U-435	SUS Union	10-32 UNF	0.25 mm	1 pc	6010-72352
U-438	SUS True ZDV Union	10-32 UNF	1.70 mm	1 pc	6010-72353
U-322	SUS for Valco Union	10-32 UNF	0.50 mm	1 pc	6010-72354
U-352	SUS for SSI Union	1/4-28 UNF	0.50 mm	1 pc	6010-72355
U-412	SUS for Waters Union	10-32 UNF	0.50 mm	1 pc	6010-72356
P-742	PEEK Union	10-32 UNF	0.25 mm	1 pc	6010-72322
P-779	PEEK Nano-tight Union	10-32 UNF	0.125 mm	1 pc	6010-72321

About 1/32" and 360 µm O.D. tubing, please contact us.

Tees & Crosses



Specifications

Tube O.D.: 1/16 in.

Nut Threads: 10-32 UNF

Max. pressure: 137.8 MPa (SUS), 24.1 MPa (PEEK)

P/N	Description	Orifice Diameter	Qty.	Cat.No.
U-428	SUS Tee	0.50 mm	1 pc	6010-72357
U-430	SUS Cross	0.50 mm	1 pc	6010-72358
P-727	PEEK Tee	0.50 mm	1 pc	6010-72323
P-729	PEEK Cross	0.50 mm	1 pc	6010-72324

Note: All the Union is packed with 1 pc, and of each fitting is included.

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HPLC Tubings (IDEX Products)

Capillary PEEK Tubing



Capillary PEEK Tubing, 1/16 in. O.D.



Capillary PEEK Tubing, 360 µm O.D.

Capillary PEEK Tubing, 1/16 in. O.D.

P/N	I.D.	Color	Max.Pressure	Length	Qty.	Cat.No.
1559	25 µm	Natural	68.9 MPa	1.5 m	1 pc	6010-74059
1560	65 µm	Natural	48.2 MPa		1 pc	6010-74060
1561	100 µm	Black			1 pc	6010-74061
1565	400 µm	Gray			1 pc	6010-74065

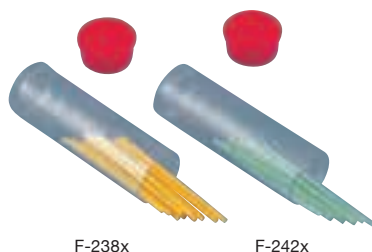
Capillary PEEK Tubing, 1/32 in. O.D.

P/N	I.D.	Color	Max.Pressure	Length	Qty.	Cat.No.
1579	65 µm	Natural	34.4 MPa	1.5 m	1 pc	6010-74290
1579-12x				0.3 m	10 pcs	6010-74291
1578	90 µm	Black		1.5 m	1 pc	6010-74280
1578-12x				0.3 m	10 pcs	6010-74281
1576	125 µm	Red		1.5 m	1 pc	6010-74260
1576-12x				0.3 m	10 pcs	6010-74261
1577	175 µm	Yellow		1.5 m	1 pc	6010-74270
1577-12x				0.3 m	10 pcs	6010-74271

Capillary PEEK Tubing, 360 µm O.D.

P/N	I.D.	Color	Max.Pressure	Length	Qty.	Cat.No.
1570	50 µm	Natural	13.7 MPa	1.5 m	1 pc	6010-74400
1570-12x				0.3 m	10 pcs	6010-74401
1573	75 µm	Black		1.5 m	1 pc	6010-74430
1573-12x				0.3 m	10 pcs	6010-74431
1571	100 µm	Red		1.5 m	1 pc	6010-74410
1571-12x				0.3 m	10 pcs	6010-74411

Tubing Sleeves



F-238x

F-242x

Tubing Sleeves

These tubing sleeves are designed to be used with 1/16 in. O.D. , 10-32 threaded fittings to adapt capillary tubing to standard coned ports.

Length (material): 31.8 mm (PEEK), 40.6 mm (FEP)

P/N	Size	Material	Color	Qty.	Cat.No.
F-229	330 µm (for O.D. 275~315 µm tubing)	PEEK	Natural	10 pcs	6010-72421
F-230	405 µm (for O.D. 350~390 µm tubing)	PEEK	Orange	10 pcs	6010-72422
F-238x	180 µm (for O.D. 125~165 µm tubing)	FEP	Yellow	10 pcs	6010-72431
F-241x	330 µm (for O.D. 275~315 µm tubing)	FEP	Orange	10 pcs	6010-72432
F-242x	395 µm (for O.D. 340~380 µm tubing)	FEP	Green	10 pcs	6010-72433

Silica Sealtight Kit

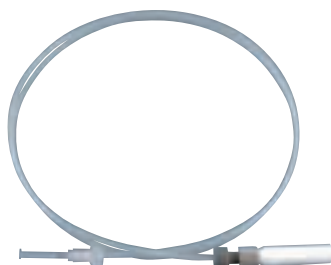
Each kit contains a 10-pack of the indicated Tubing Sleeves, 4-pack of Nano-tight PEEK Long Nut (F-330N) and 4-pack of Nano-tight ETFE Ferrule (F-142N).

P/N	Size	Color	Cat.No.
1238	180 µm (for O.D.125~165 µm tubing)	Yellow	6010-72407
1241	330 µm (for O.D.275~315 µm tubing)	Orange	6010-72413
1242	395 µm (for O.D.340~380 µm tubing)	Green	6010-72415

Inlet Solvent Filters



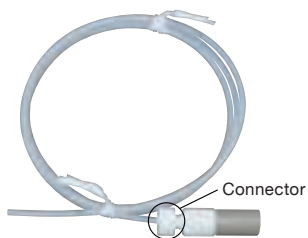
PEEK Bottom-of-the-Bottle Solvent Filter with a Free End Tubing



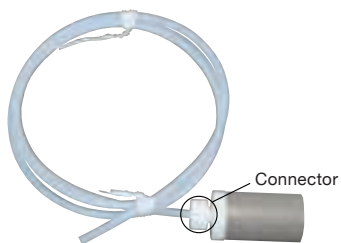
PTFE Bottom-of-the-Bottle Solvent Filter with a Flanged End.



PE Bottom-of-the-Bottle Solvent Filter with a Flanged End and an Air Trap Unit



SUS Bottom-of-the-Bottle Solvent Filter for Analytical Flow



SUS Bottom-of-the-Bottle Solvent Filter for Preparative Flow

PEEK Bottom-of-the-Bottle Solvent Filter

Filter Pore Size	Other End of Tubing	Cat.No.
10 μm	Flanged	6010-50001
	Flared	6010-50002
	Free	6010-50003
	Flared with Air Trap Unit	6010-50005

Note: PTFE tubing with 3 mm O.D. x 2 mm I.D. x 1 m is used.

PTFE Bottom-of-the-Bottle Solvent Filter

Filter Pore Size	Other End of Tubing	Cat.No.
5 μm	Flanged	6010-50011
	Flared	6010-50012
	Free	6010-50013
	Flared with Air Trap Unit	6010-50015
	Replacement Filter (without tubing)	6010-50010

Note: PTFE tubing with 3 mm O.D. x 2 mm I.D. x 1 m is used.

PE Bottom-of-the-Bottle Solvent Filter

Filter Pore Size	Other End of Tubing	Cat.No.
20 μm	Flanged	6010-50021
	Flared	6010-50022
	Free	6010-50023
	Flared with Air Trap Unit	6010-50025
	Replacement Filter (without tubing)	6010-50020

Note: PTFE tubing with 3 mm O.D. x 2 mm I.D. x 1 m is used.

SUS Bottom-of-the-Bottle Solvent Filter (for analytical flow)

Filter Pore Size	Other End of Tubing	Cat.No.
10 μm	Flanged	6010-51501
	Flared	6010-51502
	Free	6010-51503
	Flared with Air Trap Unit	6010-51540
	Replacement Filter (without tubing)	6010-51500
	20 μm	Flanged
Flared		6010-51512
Free		6010-51513
Flared with Air Trap Unit		6010-51550
Replacement Filter (without tubing)		6010-51510
40 μm		Flanged
	Flared	6010-51522
	Free	6010-51523
	Flared with Air Trap Unit	6010-51560
	Replacement Filter (without tubing)	6010-51520
	-	Connector for Solvent Filter 3 mm x 2 pcs

Note: PTFE tubing with 3 mm O.D. x 2 mm I.D. x 1 m is used.

SUS Bottom-of-the-Bottle Solvent Filter (for preparative flow)

Filter Pore Size	Other End of Tubing	Cat.No.
25 μm	Flared	6010-51612
	Free	6010-51613
	Replacement Filter (without tubing)	6010-51600
-	Connector for Solvent Filter 4 mm x 2 pcs	6010-51703

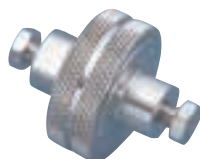
Note: PTFE tubing with 3 mm O.D. x 2 mm I.D. x 1 m is used.

Filters

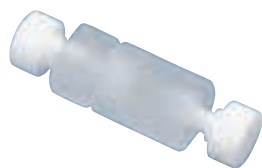
In-Line Filters



SUS In-Line Filter



SUS Semi-Prep In-Line Filter



PTFE In-Line Filter



Biocompatible PEEK Semi-Prep In-Line Filter



LRF-1



LRF-2



CRF-9

Placed between the pump and sample injection valve, these line filters trap particles, dust and dirt which would go into vial or column. If the filter becomes clogged, simply unscrew the assembly, remove the frit and replace it.

SUS In-Line Filters

Description	Detail	Cat.No.
In-Line Filters Fittings for 1/16 in. O.D. Tubing	with Nuts, Ferrules	6010-52600
Semi-Prep In-Line Filter Fittings for 1/16 in. O.D. Tubing	with Nuts, Ferrules	6010-52700

PTFE In-Line Filters

Description	Detail	Cat.No.
In-Line Filters Fittings for 1/16 in. O.D. Tubing	with Nuts, Ferrules	6010-52100
Flat-bottom Ports for Flanging Tubing Connection	without Fittings*	6010-52200

*: please prepare the 1.5-3mm flanged fittings.

Biocompatible PEEK Semi-Prep In-Line Filter

Description	Detail	Cat.No.
Semi-Prep In-Line Filter Fittings for 1/16 in. O.D. Tubing	with PEEK Fittings	6010-52750

Replacement filter for In-Line Filters

P/N	Applications line filter	Pore size	Qty.	Cat.No.
LRF-2	1/16 in. SUS In-Line Filter, Bushing Type	2 µm	5 pcs	6010-54010
LRF-7	1/16 in. SUS Semi-Prep In-Line Filter Bushing Type	10 µm	2 pcs	6010-54060
CRF-9	1/16 in. PTFE In-Line Filter Bushing Type	10 µm	5 pcs	6010-53090
LRF-1	1/16 in. PTFE In-Line Filter Flange Type	10 µm	5 pcs	6010-54000
LRF-8	1/16 in. PEEK Semi-Prep In-Line Filter Bushing Type	2 µm	2 pcs	6010-54070

SAMPLE PREPARATION

LIFE SCIENCE

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GC CAPILLARY COLUMNS

GC PACKED COLUMNS

GC ACCESSORIES

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High Pressure Precolumn Filters



Ultra-sealed Precolumn Filter

The ultra-sealed precolumn filter is designed to be used at higher pressures up to 103.4 MPa.

Specifications

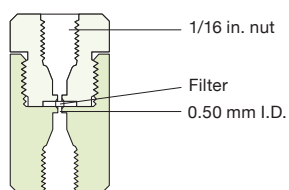
- Threads: 10-32 UNF
- Max Operating Pressure: 103.4 MPa
- Filter Pore Size: 0.5 μm
- Filter Material: Titanium
- Fitting Material: SUS (Nut), PEEK (Ferrule)

Description	P/N	Qty.	Cat.No.
Ultra-Sealed Precolumn Filter	850-1010	1 pc	6010-55500
	850-1010-10	10 pcs	6010-55505

Precolumn Filters



Precolumn Filter



Specifications

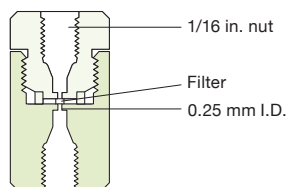
- Tubing O.D.: 1/16 in.
- Threads: 10-32 UNF
- Filter Pore Size: 2 μm

Description	Jacket Material	P/N	Qty.	Cat.No.
Precolumn Filter with 2 μm SUS Frit	SUS	A-315	1 pc	6010-55100
Replacement 2 μm SUS Frit	-	A-101	1 pc	6010-55110
Biocompatible Precolumn Filter with 2 μm PEEK Frit	PEEK	A-355	1 pc	6010-55300
Replacement 2 μm PEEK Frit for Biocompatible Precolumn Filter	-	A-700	1 pc	6010-55310

Ultra-Low Volume Precolumn Filters



Ultra-Low Volume Precolumn Filter



Specifications

- Tubing O.D.: 1/16 in.
- Threads: 10-32 UNF
- Filter Pore Size: 0.5 μm

Description	Jacket Material	P/N	Qty.	Cat.No.
Ultra-Low Volume Precolumn Filter with 0.5 μm SUS Frit	SUS	A-318	1 pc	6010-55200
Replacement 0.5 μm SUS Frit for Ultra-Low Volume Precolumn Filter	-	A-102	1 pc	6010-55210
Biocompatible Precolumn Filter with 0.5 μm PEEK Frit	PEEK	A-356	1 pc	6010-55400
Replacement 0.5 μm PEEK Frit for Biocompatible Precolumn Filter	-	A-701	1 pc	6010-55410

SAMPLE PREPARATION

LIFE SCIENCE

LC ACCESSORIES

AIR SAMPLING

GC CAPILLARY COLUMNS

GC PACKED COLUMNS

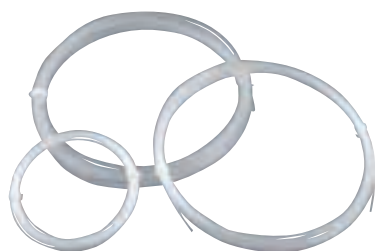
GC ACCESSORIES

CELLS

VALVES

HPLC Tubing

PTFE Tubing



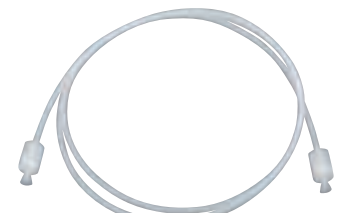
PTFE Tubing

O.D.	I.D.	Length	Cat.No.
2.0 mm	1.0 mm	5 m	6010-35205
		10 m	6010-35210
3.0 mm	1.5 mm	5 m	6010-35505
		10 m	6010-35510
3.0 mm	2.0 mm	5 m	6010-35305
		10 m	6010-35310
1/16 in.	0.17 mm	5 m	6010-35601
		10 m	6010-35602
1/16 in.	0.25 mm	5 m	6010-35603
		10 m	6010-35604
1/16 in.	0.33 mm	5 m	6010-35030
		10 m	6010-35031
1/16 in.	0.50 mm	5 m	6010-35605
		10 m	6010-35606
1/16 in.	0.75 mm	5 m	6010-35607
		10 m	6010-35608
1/16 in.	1.0 mm	5 m	6010-35609
		10 m	6010-35610
1/8 in.	1.58 mm	5 m	6010-35701
		10 m	6010-35702

PTFE Connection Tubing



Flanged PTFE Tubing



Flared PTFE Tubing

End Fitting	O.D.	I.D.	Length	Cat.No.
Flange Type	1.5 mm	0.5 mm	0.5 m	6010-46610
			1 m	6010-46615
	2 mm	1 mm	0.5 m	6010-46620
			1 m	6010-46625
	3 mm	2 mm	0.5 m	6010-46630
			1 m	6010-46635
Flare Type	2 mm	1 mm	0.5 m	6010-45910
			1 m	6010-45915
	3 mm	2 mm	0.5 m	6010-45920
			1 m	6010-45925

ETFE Tubing



ETFE Tubing

Specifications

pH Range: 1~14

Operating Temp.: up to 140°C

O.D.	I.D.	Max. Pressure	Length	Cat.No.
1/16 in.	0.25 mm	14.7 MPa	5 m	6010-36205
			10 m	6010-36210
1/16 in.	0.50 mm	6.8 MPa	5 m	6010-36505
			10 m	6010-36510
1/16 in.	0.75 mm	6.8 MPa	5 m	6010-36705
			10 m	6010-36710

PEEK Tubing

PEEK tubing is color-coded for quick identification of internal diameter. For greater visibility, choose the solid color coding, for greater chemical resistance and biocompatibility, choose the striped coding.



Striped PEEK Tubing (green)

Striped PEEK Tubing

O.D.	I.D.	Color	Max. Pressure	Length	Cat.No.
1/16 in.	0.13 mm	Red	34.3 MPa	5 m	6010-37205
				10 m	6010-37210
1/16 in.	0.25 mm	Blue	34.3 MPa	5 m	6010-37305
				10 m	6010-37310
1/16 in.	0.50 mm	Orange	34.3 MPa	5 m	6010-37505
				10 m	6010-37510
1/16 in.	0.75 mm	Green	27.4 MPa	5 m	6010-37705
				10 m	6010-37710
1/8 in.	1.60 mm	-	27.4 MPa	5 m	6010-37911
				10 m	6010-37912
1/8 in.	2.00 mm	-	20.5 MPa	5 m	6010-37921
				10 m	6010-37922



Precut Striped PEEK Tubing

Precut Striped PEEK Tubing

O.D.	I.D.	Color	Detail	Cat.No.
1/16 in.	0.13 mm	Red	50 mm, 100 mm, 200 mm, 5 pcs of each	6010-37111
1/16 in.	0.25 mm	Blue		6010-37121
1/16 in.	0.50 mm	Orange		6010-37151
1/16 in.	0.75 mm	Green		6010-37171

Solid PEEK Tubing

O.D.	I.D.	Color	Max. Pressure	Length	Cat.No.
1/16 in.	0.13 mm	Red	34.3 MPa	5 m	6010-37811
				10 m	6010-37812
1/16 in.	0.25 mm	Blue	34.3 MPa	5 m	6010-37821
				10 m	6010-37822
1/16 in.	0.50 mm	Orange	34.3 MPa	5 m	6010-37851
				10 m	6010-37852
1/16 in.	0.75 mm	Green	27.4 MPa	5 m	6010-37871
				10 m	6010-37872

Natural Color PEEK Tubing

O.D.	I.D.	Max. Pressure	Length	Cat.No.
1/16 in.	0.13 mm	34.3 MPa	5 m	6010-37215
			10 m	6010-37220
1/16 in.	0.25 mm	34.3 MPa	5 m	6010-37315
			10 m	6010-37320
1/16 in.	0.50 mm	34.3 MPa	5 m	6010-37515
			10 m	6010-37520
1/16 in.	0.75 mm	27.4 MPa	5 m	6010-37715
			10 m	6010-37720



Natural Color PEEK Tubing

SAMPLE PREPARATION

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LC ACCESSORIES

AIR SAMPLING

GC CAPILLARY COLUMNS

GC PACKED COLUMNS

GC ACCESSORIES

CELLS

VIALS

HPLC Tubing

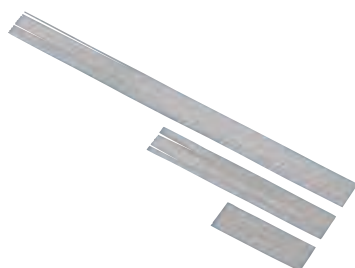
Stainless Steel Tubing



316 Stainless Steel Tubing

316 Stainless Steel Tubing

O.D.	I.D.	Length	Cat.No.
1/16 in.	0.10 mm	5 m	6010-32105
		10 m	6010-32110
1/16 in.	0.25 mm	5 m	6010-32205
		10 m	6010-32210
1/16 in.	0.50 mm	5 m	6010-32505
		10 m	6010-32510
1/16 in.	0.80 mm	5 m	6010-32805
		10 m	6010-32810
1/16 in.	1.00 mm	5 m	6010-32905
		10 m	6010-32910



Precut Stainless Steel Tubing Set

Precut Stainless Steel Tubing (1/16 in. O.D.)

Type	Dimension	Qty.	Cat.No.
1/16CT-1	0.25 mm I.D. x 50 mm L	10 pcs	6010-33010
1/16CT-2	0.25 mm I.D. x 100 mm L	10 pcs	6010-33020
1/16CT-3	0.25 mm I.D. x 200 mm L	10 pcs	6010-33030
1/16CT-4	0.5 mm I.D. x 50 mm L	10 pcs	6010-33040
1/16CT-5	0.5 mm I.D. x 100 mm L	10 pcs	6010-33050
1/16CT-6	0.5 mm I.D. x 200 mm L	10 pcs	6010-33060
1/16CT-7	0.8 mm I.D. x 50 mm L	10 pcs	6010-33070
1/16CT-8	0.8 mm I.D. x 100 mm L	10 pcs	6010-33080
1/16CT-9	0.8 mm I.D. x 200 mm L	10 pcs	6010-33090

PEEKsil Tubing

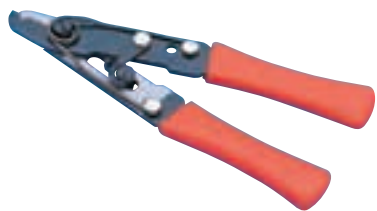


PEEKsil Tubing

PEEKsil tubing is PEEK covered fused silica capillary tubing which achieves mechanical strength and industry accepted chemical properties.

O.D.	I.D.	Max. Operating Pressure	Length	Qty.	Cat.No.
1/16 in.	0.05 mm	98.0 MPa	100 mm	5 pcs	6010-38051
			500 mm	2 pcs	6010-38055
1/16 in.	0.10 mm	98.0 MPa	100 mm	5 pcs	6010-38101
			500 mm	2 pcs	6010-38105
1/16 in.	0.175 mm	58.8 MPa	100 mm	5 pcs	6010-38171
			500 mm	2 pcs	6010-38175
1/16 in.	0.22 mm	39.2 MPa	100 mm	5 pcs	6010-38221
			500 mm	2 pcs	6010-38225

Tubing Cutters

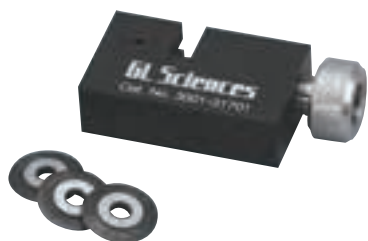


Plier-Type Tubing Cutter

Plier-Type Tubing Cutter

This tubing cutter makes clean cuts on 1/16 in. O.D. stainless steel tubing and ideal for cutting tubing in tight places.

Description	Qty.	Cat.No.
Plier-Type Tubing Cutter	1 pc	6010-81230



Rotary Tubing Cutter

Rotary Tubing Cutter

This tubing cutter cuts 1/16 in. and 1/8 in. O.D. tubings, Burr-Free leaving tubing I.D. open and also works with Glass-Lined tubings.

Description	Qty.	Cat.No.
Rotary Tubing Cutter	1 pc	3001-31701
Replacement Cutting Wheels	3 pcs	3001-31712



Handy Cutter

Handy Cutter

This cutter enable to cut a tubing of a material range from soft resin (PTFE) to harder resin (PEEK) without distorting the tubing I.D..

Usable tubing O.D. range: 1.5 ~ 8 mm

Description	Qty.	Cat.No.
Handy Cutter JC-2 (with 1 pc replacement blade)	1 pc	6010-81260
Replacement Blades For Handy Cutter JC-2	3 pcs	6010-81261



Clean Cut Tubing Cutter

Clean Cut Tubing Cutter

This cutter provides square, clean cuts on PEEK, PTFE and ETFE tubing with O.D.'s between 1/16 in. to 4 mm. Slide the tubing into the appropriate hole and engage the blade to make a perfect, square cut without distorting the tubing I.D..

Description	Qty.	Cat.No.
Clean Cut Tubing Cutter (with 1 pc replacement blade)	1 pc	6010-81270
Replacement Blade for Clean Cut Tubing Cutter	1 pc	6010-81271

Note: Usable tubing O.D.'s: 1/16 in., 2 mm, 3 mm, 1/8 in. and 4 mm



Capillary Fine Cutter

Capillary Fine Cutter

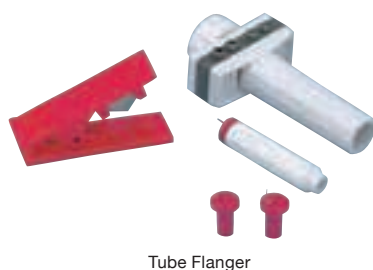
Using a rotary diamond blade, it is possible to cut silica capillary tubing cleanly and vertically. A magnifying glass is built-in for checking the cut surface.

Description	Qty.	Cat.No.
Capillary Fine Cutter for GC/LC (Black)	1 pc	3001-31020
Replacement Blade for GC/LC	1 pc	3001-31021
Capillary Fine Cutter for CE* (Blue)	1 pc	3001-31025
Replacement Blade for CE*	1 pc	3001-31026

*: Capillary electrophoresis

Tubing Flanger & Solvent Bottle Caps

■ Tubing Flanger



Tube Flanger

Tubing Flanger

This uses mechanical force to form flanges, no electricity or heat is required.

Description	Specification	Cat.No.
Tubing Flanger	Tube Flanger, Pin 0.5/0.8/1.3 1 pc of each	6010-81500
Molding Pin	0.5 mm	6010-81505
Molding Pin	0.8 mm	6010-81508
Molding Pin	1.3 mm	6010-81513

■ Solvent Reservoir Caps



Solvent Reservoir Caps

Solvent Reservoir Caps

The caps are for 500 mL, 3 L solvent bottles, and both have 4 holes of 3 mm I.D..

Description	Qty.	Cat.No.
Solvent Reservoir Cap for 500 mL	1 pc	6010-81140
Solvent Reservoir Cap for 3000 mL	1 pc	6010-81150

Tubing Clip

Tubing clip can easily fix the 1/16 in. (1.5 mm) O.D or 1/8 in. (3 mm) PTFE tubing to a beaker or a waste solvent bottle.

Description	Qty.	Cat.No.
Tubing Clip	5 pcs	6010-81160

Note: Tubing Clip can not be used for over 4 mm thick bottles.



Tube Clip

Screw Bottles & Caps

Material: Bottle (Borosilicate glass), Cap (PP)

Screw size: GL45



Screw Bottles

Description	Bottle Diameter	Bottle Length	Cat.No.
Screw Bottle 250 mL	70 mm	138 mm	6010-92501
Screw Bottle 500 mL	86 mm	176 mm	6010-92502
Screw Bottle 1000 mL	101 mm	225 mm	6010-92503

Description	Material	Qty.	Cat.No.
Screw Bottle Plug Cap	PP	1 pc	6010-92510

Cap for 1/8 in. Tubing Insertion

This cap is for GL45 threaded bottles and has two ports for 1/8 in. tubing insertion.

Cap and PTFE tubings are sealed with flange free fittings.

Wetted Material: PTFE, ETFE, PEEK

Cap Material: Phenol Resin

Thread: GL45



Cap for 1/8 in. Tubing Insertion

Description	Qty.	Cat.No.
Cap for 1/8 in. Tubing Insertion	1 set	6010-92522

Note: Including 1 pc PTFE plug.

SAMPLE PREPARATION

LIFE SCIENCE

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GC PACKED COLUMNS

GC ACCESSORIES

CELLS

VIALS

Low Volume Static Mixers

Feature

- Low volume can shorten analysis time.
- The special internal structure delivers excellent mixing efficiency and sharp peaks.
- Gradient accuracy achieves high reproducibility.
- Improves reaction efficiency of post-column derivatization.
- Mixer cartridges can be changed depending on the flow volume.

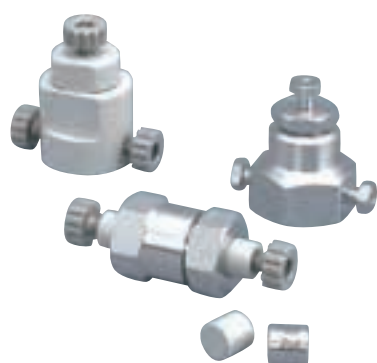
Specifications

- Max. Operating Pressure:
34.3 MPa for high pressure,
24.5 MPa for Non-metal
- Wetted Flow Path Materials:
SUS 316, PEEK for high pressure,
PEEK for non-metal

Cartridge Volume	Recommend Flow Rate Range
5 µL	~ 5 µL/min
10 µL	5 ~ 10 µL/min
25 µL	10 ~ 20 µL/min
50 µL	20 ~ 150 µL/min
150 µL	150 ~ 500 µL/min
250 µL	500 µL/min ~ 1.0 mL/min

Note: The flow rate range is case of using high pressure gradient analysis.

Micro Static Mixers



Micro Static Mixer



Static Mixer for High Pressure

Model	Detail	Cartridge Volume	Cat.No.
SM1-000.5A	High Pressure, 1 Line	0.5 µL	6010-93204
SM1-002A	High Pressure, 1 Line	2.0 µL	6010-93200
SM1-005A	High Pressure, 1 Line	5.0 µL	6010-93201
SM1-010A	High Pressure, 1 Line	10.0 µL	6010-93202
SM1-025A	High Pressure, 1 Line	25.0 µL	6010-93203
SM2-000.5A	High Pressure, 2 Lines	0.5 µL	6010-93224
SM2-002A	High Pressure, 2 Lines	2.0 µL	6010-93220
SM2-005A	High Pressure, 2 Lines	5.0 µL	6010-93221
SM2-010A	High Pressure, 2 Lines	10.0 µL	6010-93222
SM2-025A	High Pressure, 2 Lines	25.0 µL	6010-93223
RMC-000.5A	High Pressure, Replacement Cartridge	0.5 µL	6010-93214
RMC-002A	High Pressure, Replacement Cartridge	2.0 µL	6010-93210
RMC-005A	High Pressure, Replacement Cartridge	5.0 µL	6010-93211
RMC-010A	High Pressure, Replacement Cartridge	10.0 µL	6010-93212
RMC-025A	High Pressure, Replacement Cartridge	25.0 µL	6010-93213
SM1-000.5AP	Non-metal, 1 Line	0.5 µL	6010-93304
SM1-002AP	Non-metal, 1 Line	2.0 µL	6010-93300
SM1-005AP	Non-metal, 1 Line	5.0 µL	6010-93301
SM1-010AP	Non-metal, 1 Line	10.0 µL	6010-93302
SM1-025AP	Non-metal, 1 Line	25.0 µL	6010-93303
SM2-000.5AP	Non-metal, 2 Lines	0.5 µL	6010-93324
SM2-002AP	Non-metal, 2 Lines	2.0 µL	6010-93320
SM2-005AP	Non-metal, 2 Lines	5.0 µL	6010-93321
SM2-010AP	Non-metal, 2 Lines	10.0 µL	6010-93322
SM2-025AP	Non-metal, 2 Lines	25.0 µL	6010-93323
RMC-000.5AP	Non-metal, Replacement Cartridge	0.5 µL	6010-93314
RMC-002AP	Non-metal, Replacement Cartridge	2.0 µL	6010-93310
RMC-005AP	Non-metal, Replacement Cartridge	5.0 µL	6010-93311
RMC-010AP	Non-metal, Replacement Cartridge	10.0 µL	6010-93312
RMC-025AP	Non-metal, Replacement Cartridge	25.0 µL	6010-93313

Note: Please contact for 3 ways mixer.

Static Mixers

Model	Detail	Cartridge Volume	Cat.No.
SM1-05A	High Pressure, 1 Line	50 µL	6010-93057
SM1-15A	High Pressure, 1 Line	150 µL	6010-93058
SM1-25A	High Pressure, 1 Line	250 µL	6010-93059
SM2-05A	High Pressure, 2 Lines	50 µL	6010-93055
SM2-15A	High Pressure, 2 Lines	150 µL	6010-93051
SM2-25A	High Pressure, 2 Lines	250 µL	6010-93052
RMC-05A	High Pressure, Replacement Cartridge	50 µL	6010-93063
RMC-15A	High Pressure, Replacement Cartridge	150 µL	6010-93061
RMC-25A	High Pressure, Replacement Cartridge	250 µL	6010-93062
SM1-05AP	Non-metal, 1 Line	50 µL	6010-93077
SM1-15AP	Non-metal, 1 Line	150 µL	6010-93078
SM1-25AP	Non-metal, 1 Line	250 µL	6010-93079
SM2-05AP	Non-metal, 2 Lines	50 µL	6010-93071
SM2-15AP	Non-metal, 2 Lines	150 µL	6010-93072
SM2-25AP	Non-metal, 2 Lines	250 µL	6010-93073
RMC-05AP	Non-metal, Replacement Cartridge	50 µL	6010-93065
RMC-15AP	Non-metal, Replacement Cartridge	150 µL	6010-93066
RMC-25AP	Non-metal, Replacement Cartridge	250 µL	6010-93067

Note: Please contact for 3 ways mixer.



Non-metal Static Mixer

Back Pressure Regulator & In-Line Check Valves

■ Back Pressure Regulators

For Post Column Labeling Method, the back pressure regulator is used to provide the pump for reaction with back pressure for stable delivery of flow.

Back Pressure Regulators (PEEK Holder)

● Specifications

Fittings: 1/16 in. Flangeless Nut



Back Pressure Regulators

P/N	Pressure Setting	Cartridge	Cat.No.
P-790	0.03 MPa	–	6010-57000
P-791	0.14 MPa	–	6010-57001
P-786	0.52 MPa	P-762	6010-57003
P-788	1.7 MPa	P-764	6010-57005
P-789	3.4 MPa	P-765	6010-57006

Note: Fitting shape vary with the types.

Back Pressure Regulators (SUS Holder)

P/N	Pressure Setting	Cartridge	Cat.No.
U-606	0.52 MPa	P-762	6010-57013
U-608	1.7 MPa	P-764	6010-57015
U-609	3.4 MPa	P-765	6010-57016
U-610	5.2 MPa	P-795	6010-57017

Note: Fitting shape will be changed by the types.

Replacement Cartridges

● Specifications

Wetted Flow Path Materials : PEEK, ETFE, Fluorine Rubber,
Gold-Plated Stainless Steel



Replacement Cartridges

P/N	Pressure Setting	Color Coding		Cat.No.
		Body	Cap	
P-761	0.28 MPa	Yellow Brown	Blue	6010-57022
P-762	0.52 MPa	Yellow Brown	Yellow	6010-57023
P-763	0.69 MPa	Yellow Brown	Red	6010-57024
P-764	1.7 MPa	Yellow Brown	White	6010-57025
P-765	3.4 MPa	Yellow Brown	Green	6010-57026
P-795	5.2 MPa	Black	Blue	6010-57027
P-796	6.9 MPa	Black	Green	6010-57028

■ In-Line Check Valves

● Specifications

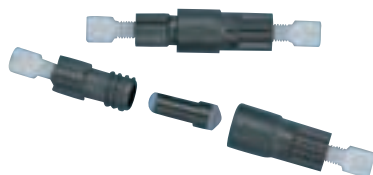
Max. Operating Pressure: 6.9 MPa

Fittings: 1/16 in., 1/8 in. Flangeless Nut

Wetted Flow Path Materials:

CV-3000 (PEEK, Gold-Plated Stainless Steel, Perfluorelastomer, ETFE)

CV-3010 (PEEK, Stainless Steel, Ethylene-propylene, ETFE)

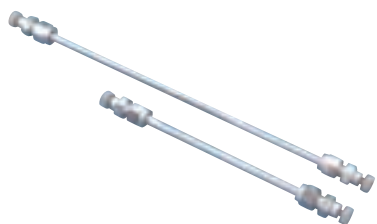


In-Line Check Valves

P/N	Description	Cat.No.
CV-3000	In-Line Check Valve 1/16 in.	6010-57100
CV-3001	Replacement Cartridge for CV-3000	6010-57101
CV-3010	In-Line Check Valve 1/8 in.	6010-57110
CV-3011	Replacement Cartridge for CV-3010	6010-57111

HPLC Column Hardware

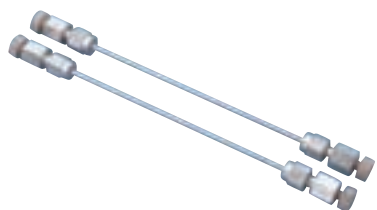
Stainless Steel Analytical Column Hardware



Analytical Column Hardware

Analytical Column Hardware with Waters End Fittings

O.D.	I.D.	Length	Cat.No.	
1/4 in.	4.0 mm	50 mm	6010-11041	
		150 mm	6010-11043	
		250 mm	6010-11045	
	4.6 mm	50 mm	6010-11051	
		4.0 mm	50 mm	6010-11053
		4.6 mm	250 mm	6010-11055
8 mm	6.0 mm	50 mm	6010-11061	
		150 mm	6010-11063	
		250 mm	6010-11065	
3/8 in.	7.6 mm	50 mm	6010-11071	
		150 mm	6010-11073	
		250 mm	6010-11075	

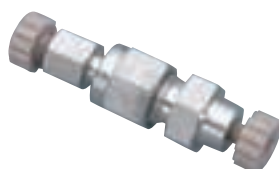


Micro-column Hardware

Micro-columns with Waters End Fittings

O.D.	I.D.	Length	Cat.No.
1/8 in.	0.7 mm	150 mm	6010-12103
		250 mm	6010-12105
	1.0 mm	150 mm	6010-12113
		250 mm	6010-12115
	1.5 mm	50 mm	6010-12123
		250 mm	6010-12125

Mini Guard Column Hardware



Mini Guard Column Hardware

Specifications

Size: 4 mm I.D. x 10 mm Length

Filter Pore: 2 µm

Description	Cat.No.
Waters End Fitting W Type	6010-11000

Column End Fittings with A Frit



Waters End Fitting



Waters End Fitting for EX Type Column

Type	Tubing size (O.D. x I.D.)	without Nut & Ferrule	with A Nut & A Ferrule
		Cat.No.	Cat.No.
Waters End Fitting	1/4 in. x 4.6 mm	6010-13043	6010-13042
	1/4 in. x 4.0 mm	6010-13046	6010-13045
	8.0 x 6.0 mm	6010-13051	6010-13050
	3/8 in. x 7.6 mm	6010-13071	6010-13070
Waters End Fitting for EX Type Column	1.0 & 1.5 mm I.D.	6010-13984	-
	2.1 mm I.D.	6010-13980	-
	3.0 mm I.D.	6010-13981	-
	4.0 mm I.D.	6010-13982	-
	4.6 mm I.D.	6010-13983	-
Micro-column	1.0 & 1.5 mm I.D.	6010-13990	-

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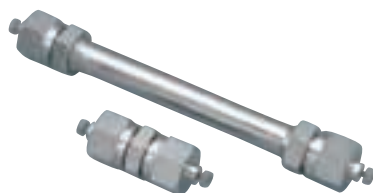
Stainless Steel Preparative Column Hardware

Preparative Columns Hardware

Max. Pressure: 29.4 MPa

Connection: 1/16 in. Nut

Filter Pore: 2 µm



Preparative Column Hardware

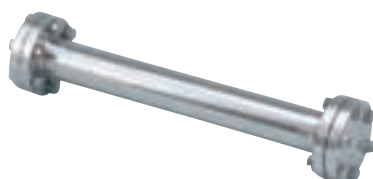
O.D.	I.D.	Length	Cat.No.
12.7 mm	10.7 mm	50 mm	6010-15000
		250 mm	6010-15003
		500 mm	6010-15005
25.0 mm	20.0 mm	50 mm	6010-15020
		250 mm	6010-15023
		500 mm	6010-15025
38.0 mm	30.0 mm	50 mm	6010-15040
		250 mm	6010-15043
		500 mm	6010-15045

Note: Besides above length, 16.7 mm I.D., 22.2 mm I.D. size are also available.

Flanged Preparative Columns Hardware

Connection: 1/16 in. Nut

Filter Pore: 5 µm



Flanged Preparative Column Hardware

Model	I.D.	Length	Max. Pressure	Cat.No.
LBC-38	36.7 mm	500 mm	11.8 MPa	6010-15135
		1000 mm		6010-15136
LBC-54	53.5 mm	500 mm	7.8 MPa	6010-15145
		1000 mm		6010-15146
LBC-70	69.3 mm	500 mm	4.9 MPa	6010-15155
		1000 mm		6010-15156
LBC-81	81.1 mm	500 mm	2.9 MPa	6010-15165
		1000 mm		6010-15166

Note: Besides above length, I.D., and connection type are also available.

Packers



Packer

The packer is a tool to pack columns with packings using Slurry Packing Method. It can be used for various I. D. columns by changing the attachments.

Model	Capacity	Max. Pressure	Cat.No.
CP-25	25 mL	58.8 MPa	6010-61100
CP-40	40 mL		6010-61200
CP-50	50 mL		6010-61300
CP-100	100 mL		6010-61400



CPA-2 Attachment



CPA-4 Attachment

Attachments

Model	Column O.D. Size	Threads	Cat.No.
CPA-1	Stainless Steel 1/8 in. O.D. Column	M8 × 1	6010-61900
CPA-2	Stainless Steel 6 mm O.D. Column	M12 × 1	6010-61901
CPA-3	Micro-column	5/16 - 20	6010-61903
CPA-4	Stainless Steel 1/4 in. O.D. Column	7/16 - 20	6010-61904
CPA-5	Stainless Steel 3/8 in. O.D. Column	9/16 - 20	6010-61905
CPA-6	Stainless Steel 8 mm O.D. Column	1/2 - 20	6010-61906
CPA-9	Stainless Steel 10 mm O.D. Column	M18 × 1	6010-61909
CPA-10	Glass 10 mm I.D. Column	M24 × 1	6010-61911

Replacement Sealings

Description	Qty.	Cat.No.
Outlet Sealing for CP-25, CP-40, CP-50, CP-100	5 pcs	6010-61800
Inlet Sealing for CP-25	5 pcs	6010-61810
Inlet Sealing for CP-40	5 pcs	6010-61820
Inlet Sealing for CP-50, CP-100	5 pcs	6010-61830

■ Replacement Stainless Steel Frits for Analytical Columns

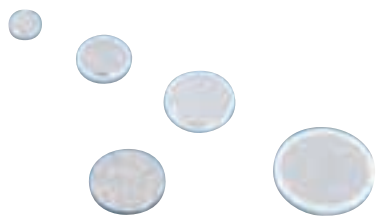


Replacement Stainless Steel Frits for Analytical Columns

Model	Column O.D., I.D. Size	Porosity	Qty.	Cat.No.
CRF-1	Outlet Frit for Mini Guard Column	2 µm	5 pcs	6010-53000
CRF-2	1/8 in. O.D.	2 µm	5 pcs	6010-53010
CRF-3	6 mm O.D., 2.6 mm I.D.	2 µm	5 pcs	6010-53020
CRF-4	6 mm O.D., 4 mm I.D.	2 µm	5 pcs	6010-53030
CRF-5	1/4 in. O.D., Inlet for Mini Guard Column	2 µm	5 pcs	6010-53040
CRF-6	8 mm O.D.	2 µm	5 pcs	6010-53060
CRF-7	3/8 in. O.D.	2 µm	5 pcs	6010-53070
CRF-8	10 mm O.D.	2 µm	5 pcs	6010-53080
CRF-9	Glass Column (PTFE)	10 µm	5 pcs	6010-53090
CRF-10	0.7 mm I.D. Micro-column	0.5 µm	5 pcs	6010-53100
CRF-11	1.0, 1.5 mm I.D. Micro-column	0.5 µm	5 pcs	6010-53110
CRF-13	1/4 in. O.D., 2.1 mm I.D.	0.5 µm	5 pcs	6010-53130
CRF-14	1/4 in. O.D., 3.0 mm I.D.	0.5 µm	5 pcs	6010-53140
CRF-15	1/4 in. O.D., 4.0 mm I.D.	0.5 µm	5 pcs	6010-53150

Note: CRF-1-8 and CRF-10-15 are stainless steel frits with sealing ring.

■ Replacement Stainless Steel Frits for Preparative Columns



Replacement Stainless Steel Frits for Preparative Columns

Model	Column O.D., I.D. Size	Porosity	Qty.	Cat.No.
ARF-10	12.7 mm O.D., 10.7 mm I.D.	2 µm	2 pcs	6010-54510
ARF-16	21.7 mm O.D., 16.7 mm I.D.	2 µm	2 pcs	6010-54516
ARF-20	25.0 mm O.D., 20.0 mm I.D.	2 µm	2 pcs	6010-54520
ARF-22	27.2 mm O.D., 22.0 mm I.D.	2 µm	2 pcs	6010-54522
ARF-30	38.0 mm O.D., 30.0 mm I.D.	2 (40) µm	2 pcs	6010-54530

Note: These frits come complete with a PTFE sealing ring.

ARF-30 includes two sets of a main frit (2 µm) and a sub-frit (40 µm).

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Manual Sample Injector Valves

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7725

7725-7725i SUS Model Injector

The patented Make-Before-Break (MBB[®]) design allows continuous flow when the injector is switched between LOAD and INJECT positions. No interruption of the flow is a good use for flow-sensitive detectors, fragile columns or pump.

7725i is an injector with a built-in position sensing switch which provides the systems with a reproducible start signal.

Specifications

- Tubing O.D.: 1/16 in.
- Port: 10-32 UNF
- Sample Loop Volumes: 2 μ L ~ 5 mL
- Max. Operating Pressure: 48 MPa
- Max. Operating Temp.: 80 °C
- Wetted Material: SUS316, PEEK, Ceramic, Vespel.

Description	Cat.No.
7725 SUS Model injector	6020-76000
7725i SUS Model injector	6020-77000

9725-9725i PEEK Model Injector

Both Valves (PEEK) has no metal in contact with the flow for sample compatibility.

Patented Make-Before-Break (MBB[®]) architecture allows continuous flow when the injector is switched between LOAD and INJECT positions which virtually eliminates transient pressure shocks for extended column life. 9725i is an injector with a built-in position sensing switch which provides the system with a reproducible start signal.

Specification

- Tubing O.D.: 1/16 in.
- Port: 10-32 UNF
- Sample Loop Volumes: 2 μ L ~ 10 mL
- Max. Operating Pressure: 34 MPa
- Max. Operating Temp.: 50 °C
- Wetted Material: PEEK, Ceramic, Tefzel.

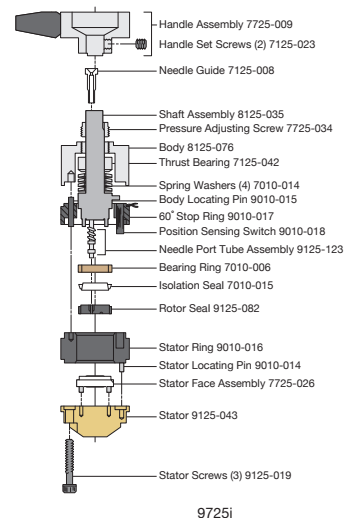
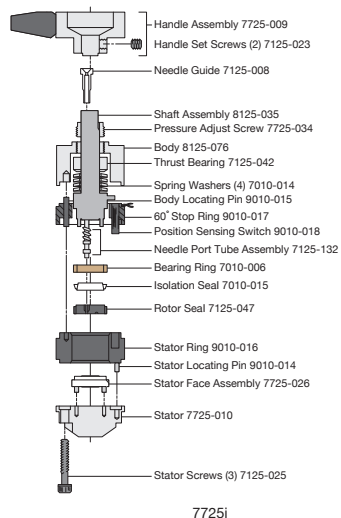


9725

Description	Cat.No.
9725 PEEK Model injector	6020-93000
9725i PEEK Model injector	6020-94000

Note: About tubing, please use RHEFLEX fitting and ETFE tubing or PEEK tubing.

Valve Connecting Diagram



RHEODYNE Valve Accessories

Fittings



6000-054



6000-055



6000-282

P/N	Description	Qty.	Cat.No.
6000-051	1/16 RheFlex Ferrule	5 pcs	6020-34051
6000-054	1/16 RheFlex Fitting Set	5 pcs	6020-34054
6000-054GN	1/16 RheFlex Fitting Set Green	5 pcs	6020-35002
6000-054GY	1/16 RheFlex Fitting Set Gray	5 pcs	6020-35003
6000-054YL	1/16 RheFlex Fitting Set Yellow	5 pcs	6020-35006
6000-055	1/16 RheFlex Short Fitting Set	5 pcs	6020-34055
6000-076	1/8-1/16 Port Adaptor	1 pc	6020-34076
6000-078	1/8 RheFlex Fitting Set	1 pc	6020-34078
6000-090	1/16 RheFlex Plug	5 pcs	6020-34090
6000-277	1/16 RheFlex Ferrule	10 pcs	6020-34277
6000-278	1/8 RheFlex Flangeless Fitting Set	10 pcs	6020-34278
6000-282	1/16 RheFlex One-Piece Fitting Set	10 pcs	6020-34282

Stainless Steel Fittings



7010-009



7010-010



7010-011

P/N	Description	Qty.	Cat.No.
6000-082	1/8 Fitting Set	1 set	6020-34082
6000-083	1/8 Ferrule	5 pcs	6020-34083
7010-009	1/16 Nut	5 pcs	6020-37009
7010-010	1/16 Ferrule	5 pcs	6020-37010
7010-011	1/16 Long Nut	5 pcs	6020-37011
7010-062	1/16 Extra Long Nut	5 pcs	6020-37062

Needle Port Accessories



7125-008



7215



7125-054



7125-132

Valve Model No.	P/N	Description	Qty.	Cat.No.
7725, 7725i, 7125	7125-008	Needle Guide	1 pc	6020-61008
7725, 7725i, 7125	7215	#22 Gauge Needle	1 pc	6020-67000
7725, 7725i, 7125	7125-054	Needle Port Cleaner	1 pc	6020-61054
7725, 7725i, 7125	7125-132	Needle Port Tube Assembly	1 pc	6020-61132
9725, 9725i	9125-076	Suction Needle Adaptor	1 pc	6020-92076

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RHEODYNE Valve Accessories

Stators



7010-040



7725-010

Stators

Valve Model No.	P/N	Material	Qty.	Cat.No.
7725, 7725i	7725-010	Stainless Steel	1 pc	6020-76010
7000, 7010, 7030, 7040, 7125	7010-040	Stainless Steel	1 pc	6020-37040

Stator Face Assembly

Valve Model No.	P/N	Qty.	Cat.No.
7725, 7725i, 9725, 9725i	7725-026	1 pc	6020-76026

Rotor Seals



7125-047



9125-082

Valve Model No.	P/N	Material	Qty.	Cat.No.
7125, 7725, 7725i	7125-047	Vespel	1 pc	6020-61047
7125, 7725, 7725i	7125-079	Tefzel	1 pc	6020-61079
9725, 9725i	9125-082	Tefzel	1 pc	6020-92082

Common Accessories



7010-015



9010-018

P/N	Description	Qty.	Cat.No.
7010-006	Bearing Ring	1 pc	6020-37006
7010-015	Isolation Seal	1 pc	6020-37015
9010-018	Position Sensing Switch	1 pc	6020-91018

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Sample Loops



7755-024

Valve Model No.	Material	Volume	P/N	Qty.	Cat.No.
7010, 7125	Stainless	5 µL	7020	1 pc	6020-41020
		10 µL	7021	1 pc	6020-41021
		20 µL	7022	1 pc	6020-41022
		50 µL	7023	1 pc	6020-41023
		100 µL	7024	1 pc	6020-41024
		200 µL	7025	1 pc	6020-41025
		500 µL	7026	1 pc	6020-41026
		1.0 mL	7027	1 pc	6020-41027
		2.0 mL	7028	1 pc	6020-41028
		5.0 mL	7029	1 pc	6020-41029
7725, 7725i	Stainless	2 µL	7755-015	1 pc	6020-77015
		5 µL	7755-020	1 pc	6020-77020
		10 µL	7755-021	1 pc	6020-77021
		20 µL	7755-022	1 pc	6020-77022
		50 µL	7755-023	1 pc	6020-77023
		100 µL	7755-024	1 pc	6020-77024
		200 µL	7755-025	1 pc	6020-77025
		500 µL	7755-026	1 pc	6020-77026
		1.0 mL	7755-027	1 pc	6020-77027
		2.0 mL	7755-028	1 pc	6020-77028
5.0 mL	7755-029	1 pc	6020-77029		
9010, 9725, 9725i	PEEK	5 µL	9055-020	1 pc	6020-91020
		10 µL	9055-021	1 pc	6020-91021
		20 µL	9055-022	1 pc	6020-91022
		50 µL	9055-023	1 pc	6020-91023
		100 µL	9055-024	1 pc	6020-91024
		200 µL	9055-025	1 pc	6020-91025
		500 µL	9055-026	1 pc	6020-91026
		1.0 mL	9055-027	1 pc	6020-91027
		2.0 mL	9055-028	1 pc	6020-91028
5.0 mL	9055-029	1 pc	6020-91029		



9055-024

Manual Injection Syringes



701SNR
(80365)

Hamilton Syringe 700 Series

Point Style	Model No.	Volume	Gauge	Qty.	Cat.No.
pst-3	701SNR (80365)	10 µL	22s	1 pc	4025-11701
	702SNR (80465)	25 µL	22s	1 pc	4025-11702
	705SNR (80565)	50 µL	22s	1 pc	4025-11705
	710SNR (80665)	100 µL	22s	1 pc	4025-11710
	725SNR (80765)	250 µL	22s	1 pc	4025-11725
	750SNR (80865)	500 µL	22	1 pc	4025-11750

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AIR SAMPLING

GC CAPILLARY COLUMNS

GC PACKED COLUMNS

GC ACCESSORIES

CELLS

VALVES

VIALS
CELLS
GC ACCESSORIES
GC PACKED COLUMNS
GC CAPILLARY COLUMNS
AIR SAMPLING
LC ACCESSORIES
LIFE SCIENCE
SAMPLE PREPARATION

