

# Chromatography Consumable

## Vial & Cap Syringe Filter



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## Rainbow Vials selection guidance

### The characteristics of vials and septa

#### The characteristics of glass vials:

- All products made from borosilicate TYPE I glass tubing, the key indicators just like ID, OD, mouth size, thread specification conform to international standard.
- The thread specification is very accurately, ensure autosampler can grasp the vials accurate and easy.
- The product manufacture and packed in cleaning room, all the packing material made from special materials, ensure non-pollution.
- The brand and marking spot we used ceramic printing process, ensure non-heavy metal like Pb, Cr etc. meet European RoHS standard. And the printing difficult to be fall of, ensure keep identity for a long time.

#### The characteristics of Septa:

- All septa made from high-purity PTFE and high quality silicone rubber or ultrapure silicone, ensure the product nontoxicity.
- The products used the new tech to avoid the adhesive, this made the septa soft then before, ensure to provide better protection for the needle of the autosampler.
- The products made in the cleaning room, the customer can be use the product directly not through cleaning operation.

## Rainbow Vials Identify figure and specific

8-425 stand open screw neck  
2mL vials  
Compatible  
Shimadzu instrument



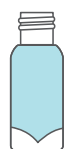
size: 32×11.6mm

9mm screw neck  
2mL vials  
Fully compatible  
Agilent instrument



size: 32×11.6mm

9mm screw neck  
1.5mL high recovery vials  
Compatible  
Agilent instrument



size: 32×11.6mm

10-425 screw neck  
2mL vials



size: 32×11.6mm

13-425 screw neck  
4mL vials  
Compatible Waters wisp 48



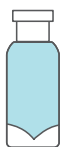
size: 45×14.7mm

11mm screw neck  
2mL vials



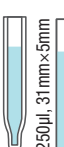
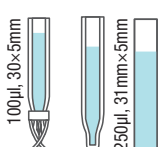
size: 32×11.6mm

11mm crimp neck  
1.5mL high recovery vials  
Compatible Agilent instrument

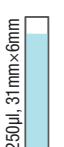
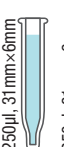


size: 32×11.6mm

Insert  
Suitable for 8-425 standard  
open screw neck vials



Insert  
Suitable for 9mm and  
10-425 screw neck vials.  
Suitable for 11mm crimp neck vials.



15-425 screw neck  
8mL vials



size: 61×16.6mm

18-400 screw neck  
15mL vials



size: 71×20.6mm

24-400 screw neck  
20mL EPA/VOC vials



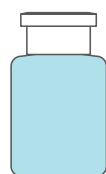
size: 57×27.5mm

24-400 screw neck  
40mL EPA/VOC vials



size: 95×27.5mm

20mm crimp neck  
6mL Headspace vials



size: 38.2×22mm

20mm crimp neck  
10mL Headspace vials



size: 46.2×22.5mm

20mm crimp neck  
20mL Headspace vials



size: 75.5×22.5mm

18mm crimp neck  
10mL Headspace vials



size: 46×22.5mm

18mm crimp neck  
20mL Headspace vials



size: 75.5×22.5mm

## Rainbow Vial & Cap

Type	Part No.	Description	Qty	
 2mL Screw Vial&Cap	SVL020-1C02	9mm Screw Vial, 32x11.6mm, Clear glass	100/pk	
	SVL020-2C02	9mm Screw Vial, 32x11.6mm, Clear glass, Write on	100/pk	
	SVL020-3C03	9mm Screw Vial, 32x11.6mm, Amber glass	100/pk	
	SVL020-4C02	9mm Screw Vial, 32x11.6mm, Amber glass, Write on	100/pk	
	 9mm Screw, PP cap, Blue, White silicone/Red PTFE	SDB040-2103	9mm Screw, PP cap, Blue, White silicone/Red PTFE	100/pk
		SDB040-2201	9mm Screw, PP cap, Blue, White silicone/Red PTFE, Pre-slit	100/pk
 2mL Crimp Vial&Cap	CVL020-1C01	11mm Crimp Vial, 32x11.6mm, Clear glass	100/pk	
	CVL020-2C01	11mm Crimp Vial, 32x11.6mm, Clear glass, Write on	100/pk	
	CVL020-3C01	11mm Crimp Vial, 32x11.6mm, Amber glass	100/pk	
	CVL020-4C01	11mm Crimp Vial, 32x11.6mm, Amber glass, Write on	100/pk	
	 11mm Crimp Aluminum cap, clear, centre hole, Clear PTFE/Orange Silicone	CDC040-1103	11mm Crimp Aluminum cap, clear, centre hole, Clear PTFE/Orange Silicone	100/pk
		CDC040-1101	11mm Crimp Aluminum cap, clear, centre hole, Red Butyl/Transparent PTFE	100/pk
		CDC040-2101	11mm Crimp Aluminum cap, Blue, centre hole, Red Butyl/Transparent PTFE	100/pk
		CDC040-8101	11mm Crimp magnetic cap, Silver, centre hole, Clear PTFE/Orange Silicone	100/pk
 2mL Snap Vial&Cap	NVL020-1A01	11mm Snap Vial, 32x11.6mm, Clear glass	100/pk	
	NVL020-2A02	11mm Snap Vial, 32x11.6mm, Clear glass, Write on	100/pk	
	NVL020-3B01	11mm Snap Vial, 32x11.6mm, Amber glass	100/pk	
	NVL020-4B02	11mm Snap Vial, 32x11.6mm, Amber glass, Write on	100/pk	
	 11mm Snap PE cap, red, centre hole, White PTFE/red Rubber	NDC000-5101	11mm Snap PE cap, red, centre hole, White PTFE/red Rubber	100/pk
		NDC000-6102	11mm Snap PE cap, transparent, centre hole, White silicone/Red PTFE	100/pk
		NDC000-5103	11mm Snap PE cap, red, centre hole, Red PTFE/White silicone/Red PTFE	100/pk
		NDC000-5201	11mm Snap PE cap, red, centre hole, White silicone/Blue PTFE, Pre-slit	100/pk

## 타사 제품과의 호환

Category	Type	Maker			
		Rainbow	Waters	Agilent	Thermo
2mL Screw Vial	9mm Screw Vial, 32x11.6mm, Clear glass	<b>SVL020-1C02</b>	186000273	5182-0714	CHSV9-10
	9mm Screw Vial, 32x11.6mm, Clear glass, Write on	<b>SVL020-2C02</b>	186000272C	5182-0715	CHSV9-10P
	9mm Screw Vial, 32x11.6mm, Amber glass	<b>SVL020-3C03</b>	186000848	5188-6535	CHSV9-20
	9mm Screw Vial, 32x11.6mm, Amber glass, Write on	<b>SVL020-4C02</b>	186000847C	5182-0716	CHSV9-20P
2mL Screw Cap	9mm Screw, PP cap, Blue, White silicone/Red PTFE	<b>SDB040-2103</b>	186000274	5182-0720	CHSC9-30
	9mm Screw, PP cap, Blue, White silicone/Red PTFE, Pre-slit	<b>SDB040-2201</b>	186000305	5183-2076	CHSC9-40

## Welded Syringe Filters

### The advantage of welded syringe filters.

웰딩 처리 되지 않은 시린지 필터와 비교하여 Rainbow 시린지 필터는 제품 파손을 방지할 수 있고, 샘플의 안정성을 높일 수 있으며 더 나은 필터의 성능을 보장한다.

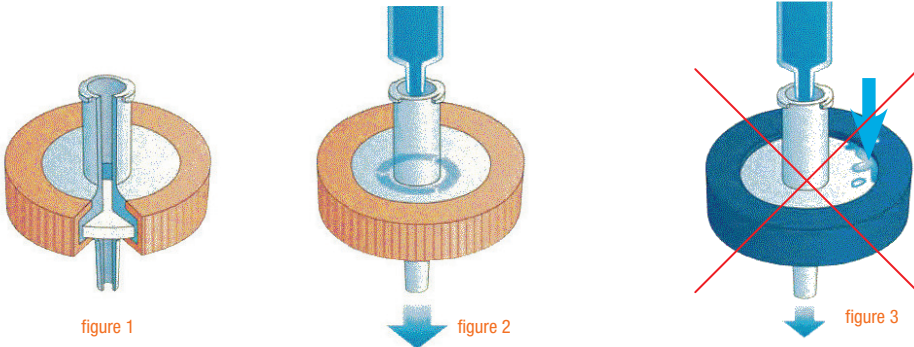


Figure 1.2. Rainbow welded Syringe Filter  
Membrane과 하우징이 서로 완벽하게 웰딩되어 제작

Figure 3. welded되지 않은 타사 Syringe Filter  
Leak 발생

## Welded Syringe Filters

Membrane	Type Category
Nylon	친수성/마일드한 유기용매 겸용, 반도체 산업, 배양 배지, 약, 음료, 고순도 화학 물질 일반적으로 사용, pH 범위 3-14 * 산성의 Sample은 권장되지 않음
PTFE (Hydrophobic)	유기용매 전용, 액체 및 기체 여과 모두에 적합, pH 범위 1-14
PTFE (Hydrophilic)	양쪽성(친수성, 유기용매) 사용적합, pH 범위 1-14
PVDF (Hydrophobic)	마일드한 유기용매 겸용, pH 범위 2-13 * acetone, DMSO(dimethyl sulfoxide), THF(tetrahydrofuran)등 권장되지 않음
PVDF (Hydrophilic)	친수성/마일드한 유기용매 겸용, acetone, DMSO, 낮은 단백질 결합 및 온도 저항, pH 범위 2-13

## Rainbow Syringe Filter

Type	Pore size	Diameter	Part No.	Qty	Color code
Nylon	0.45μm	13mm	SNY1345	100/pk	○
		25mm	SNY2545	100/pk	○
	0.22μm	13mm	SNY1322	100/pk	●
		25mm	SNY2522	100/pk	●
PTFE (Hydrophobic)	0.45μm	13mm	SPT1345B	100/pk	●
		25mm	SPT2545B	100/pk	●
	0.22μm	13mm	SPT1322B	100/pk	●
		25mm	SPT2522B	100/pk	●
PTFE (Hydrophilic)	0.45μm	13mm	SPT1345L	100/pk	●
		25mm	SPT2545L	100/pk	●
	0.22μm	13mm	SPT1322L	100/pk	●
		25mm	SPT2522L	100/pk	●
PVDF (Hydrophobic)	0.45μm	13mm	SPV1345B	100/pk	●
		25mm	SPV2545B	100/pk	●
	0.22μm	13mm	SPV1322B	100/pk	●
		25mm	SPV2522B	100/pk	●
PVDF (Hydrophilic)	0.45μm	13mm	SPV1345L	100/pk	●
		25mm	SPV2545L	100/pk	●
	0.22μm	13mm	SPV1322L	100/pk	●
		25mm	SPV2522L	100/pk	●