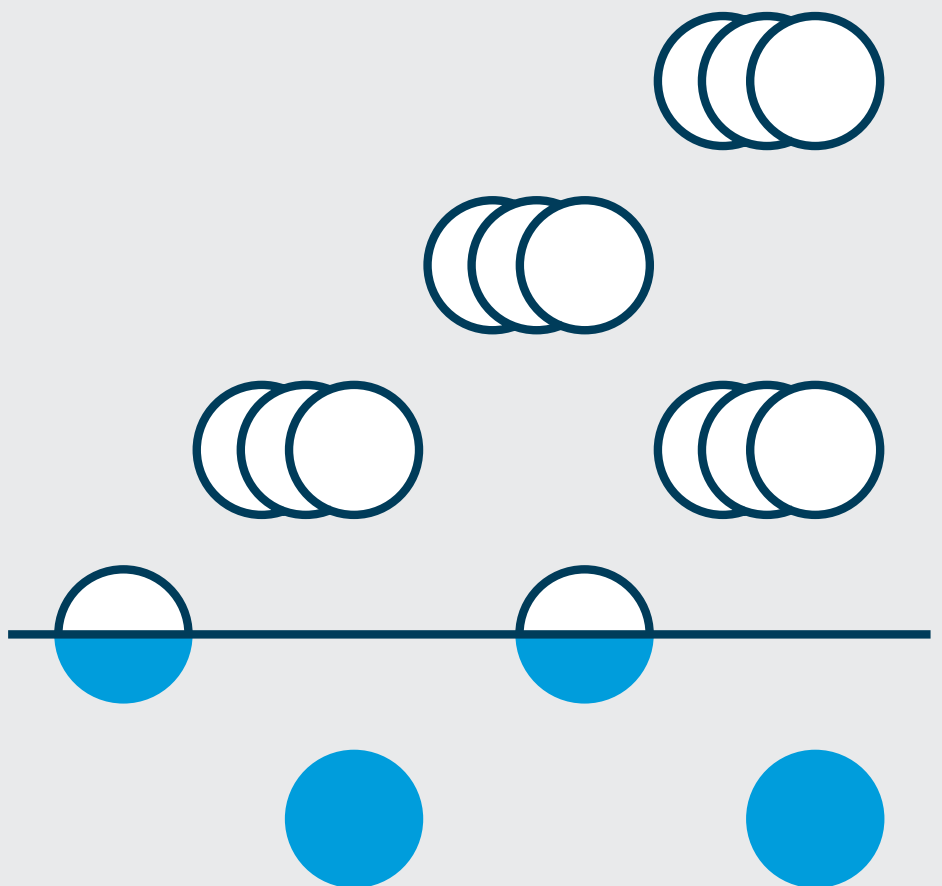


바이오의약품 공정을 위한 여과 솔루션 종합 카탈로그

Bioprocess filter solution catalogue

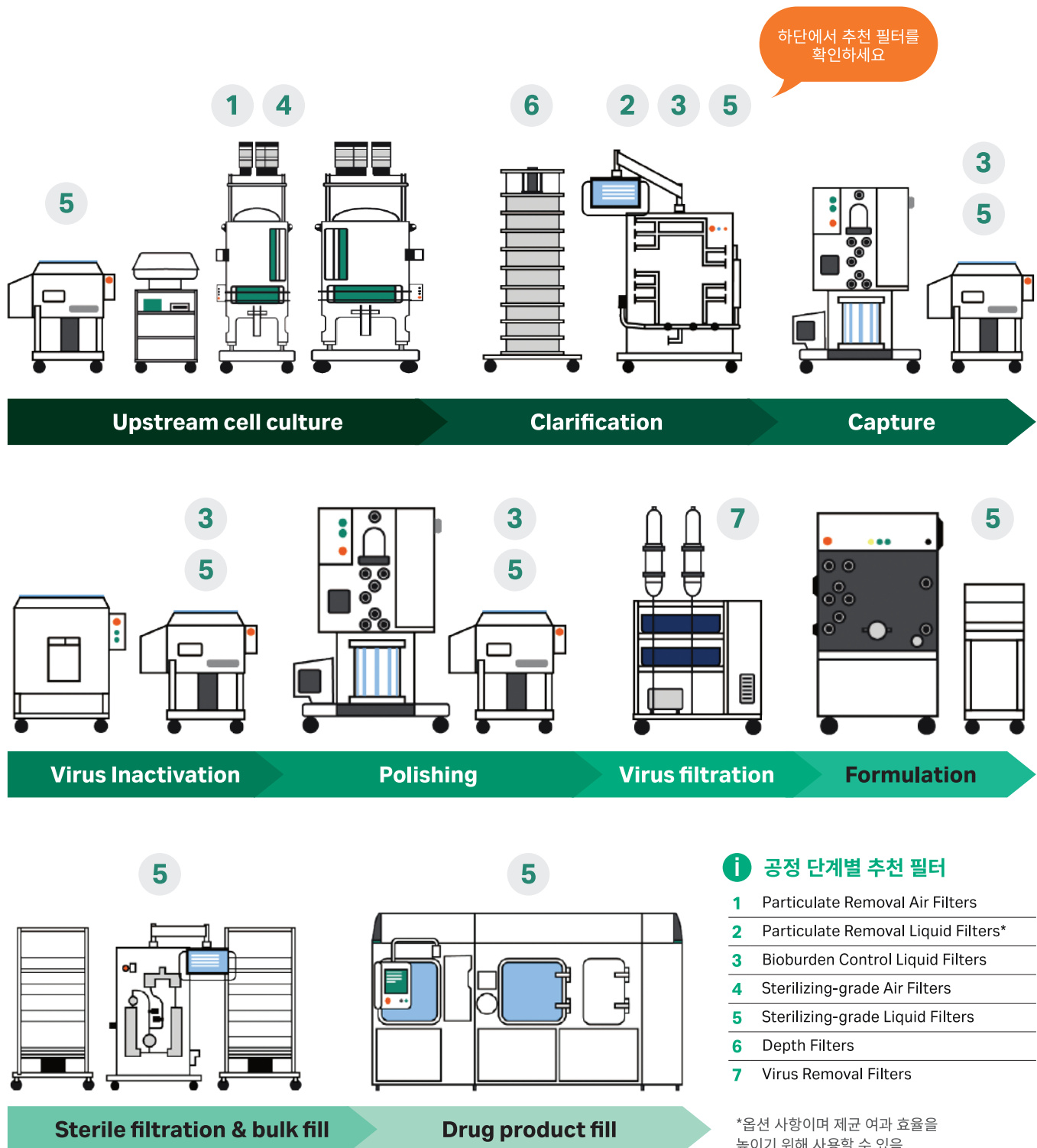


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바이오의약품 제조 공정에 사용되는 싸이티바의 통합 여과 솔루션

바이오의약품 제조에서 필터는 생산 효율성과 최종 제품의 품질을 향상시키는 핵심 요소입니다. 싸이티바의 고성능 필터 기술은 배양 공정(Upstream)에서 정제 공정(Downstream)까지 통합적인 여과 솔루션을 제공합니다.



Depth Filtration

Seitz® Depth Filter Media



Product line and key feature

P-Series	HP-Series	Bio-Series
• 단일층으로 구성 • 바이오 의약품 개발산업에 적합	• 이중층으로 구성 • 낮은 세포 생존도 및 높은 불순물 함유 물질에 적합	• 높은 순도의 천연/변형 셀룰로오스 섬유 • 무기물질 불포함 (규조토, 펄라이트, 유리섬유 등)

Technical Information – Stax™

해당 기술 정보는 Stax™ 제품에 한하며 다른 Capsule 혹은 Module 에 관한 정보는 Cytiva에 문의 주시기 바랍니다.

Materials of Construction

Capsule shell	Glass-filled polypropylene
Manifold assemblies	Glass-filled polypropylene
Internal module	Polypropylene
Gasket	Silicone

Capsule Weight ⁽¹⁾

Capsule Size	Dry	Wet (Post blow down)
Small	3.45 – 3.80 kg	4.80 – 5.25 kg
Medium	4.90 – 5.30 kg	7.60 – 8.00 kg
Large	7.00 – 8.20 kg	12.70 – 13.60 kg

Void Volume ⁽²⁾

Small capsule	1.1 L
Medium capsule	1.6 L
Large capsule	2.6 L

Operating Parameters

Maximum Operating Temperature	60 °C
Maximum Operating Pressure ⁽³⁾	3.5 bar (50 psi) at 25°C 1.0 bar (14.3 psi) at 60°C
Maximum Differential Pressure	2.4 bar (35 psi) at 25 °C - forward direction
Autoclave Capability/Limits	2 autoclave (1 cycles: 60 minutes at 125 °C)
Post-Use Autoclave Sterilization	60 minutes at 121 °C (applies to entire Stax™ system – capsules and chassis together)

Sanitization

Hot water sanitization	80 °C at 1 bar (14.3 psi) for 60 minutes
Post use caustic treatment	1 M NaOH at 3.5 bar (50 psi) for 60 minutes at 25 °C

(1) Capsule 무게는 Internal Module 포함.

(2) Void Volume 은 설치된 Capsule 의 전체 공간을 채우는 액체의 양으로 정의.

(3) 모든 사용 압력은 Cytiva Stax™ Chassis 에 설치된 경우에 한함.

Format guide

	공정 개발 단계		공정 개발 및 임상 단계			
	< 1 to 3 L	3 to 100+L	50 to 2,000+ L	50 to 20,000+ L	50 to 20,000+ L	50 to 20,000+ L
포맷						
제품명	SUPRAcap™ 50 Capsules	SUPRAcap™ 100 Capsules	SUPRAcap™ 200 Capsules	SUPRADisc™ I Modules	SUPRADisc™ II Modules	Stax™ Capsules
유효여과면적	22 cm ²	5/10/20/30 in. (0.025 to 0.3 m ²)	9 / 16 cells (1.0 / 1.8 m ²)	Code 203 - 520 (0.3 to 5.0 m ²)	Code 232 - 440 (1.8 to 5.0 m ²)	S/M/L (0.25 to 2.0 m ²)
적용 가능 재질	P, HP, Bio	P, HP, Bio	P, HP	P, HP, Bio	P, HP, Bio	P, HP, Bio

Specification

P-Series, Bio-Series, HP-Series *

Series	Code	Depth Filter Type	Nominal Retention Rating in µm	Ash Content in %
P-Series (Single layer)	PEKX	EKX-P	0.05 - 0.2	62
	PEKS	EKS-P	0.1 - 0.3	58
	PEKM	EKM-P	0.2 - 0.5	51
	PEK1	SUPRA EK1P	0.2 - 0.5	47
	P050	KS 50 P	0.4 - 0.8	46
	P100	K 100 P	1.0 - 3.0	46
	D50P	SUPRAdur 50 P	1.0 - 4.0	27
	P080	SUPRA 80 P	1.0 - 3.0	49
	P200	K 200	3.0 - 6.0	46
	P250	K 250	4.0 - 9.0	46
	P700	K 700	6.0 - 15.0	46
	P900	K 900 P	8.0 - 20.0	46
	P1500	T1500P	11.0 - 30.0	33
	V100	V100P	2.0 - 4.0	52
Bio-Series (Single layer)	B010	Bio 10	0.2 - 0.4	<1
	B020	Bio 20	0.4 - 1.0	<1
HP-Series (Double layer)	PDAX	PDAX	0.05 - 0.3	60
	PDCX	PDCX	0.05 - 0.5	60
	PDC1	PDC1	0.1 - 0.5	52
	PDD1	PDD1	0.1 - 0.85	52
	PDE1	PDE1	0.1 - 3.0	52
	PDD2	PDD2	0.2 - 0.8	52
	PDL3	PDL3	0.2 - 3.0	48
	PDE2	PDE2	0.2 - 3.5	47
	PDH4	PDH4	0.5 - 15.0	45
	PDK5	PDK5	1.5 - 22.0	45
	PDK7	PDK7	3.0 - 20.0	45
	PDP8	PDP8	6.0 - 30.0	39
	PDK11	PDK11	2.0 - 20.0	49

Filter Design and Size	Effective Filter Area
SUPRAcap™ 50 Capsules (<1 to 3 L)	
Capsule	22 cm ² (0.024 ft ²)
SUPRAcap™ 100 Capsules (3 to 100+ L)	
5 in. Capsule	0.05 m ² (0.54 ft ²) SL ⁽¹⁾ 0.025 m ² (0.27 ft ²) DL ⁽²⁾
10 in. Capsule	0.1 m ² (1.08 ft ²) SL 0.05 m ² (0.54 ft ²) DL
20 in. Capsule	0.2 m ² (2.15 ft ²) SL 0.1 m ² (1.08 ft ²) DL
30 in. Capsule	0.3 m ² (3.23 ft ²) SL 0.15 m ² (1.61 ft ²) DL
SUPRAcap™ 200 Capsules (50 to 2,000+ L)	
Capsule with 9 cells (Size code 209 ⁽³⁾ , 210 ⁽⁴⁾)	1.0 m ² (10.8 ft ²)
Capsule with 16 cells (Size code 216 ⁽³⁾ , 232 ⁽⁵⁾)	1.8 m ² (19.4 ft ²)
SUPRADisc™ I Modules (50 to 20,000+ L)	
Size code 203 ^{(6)*}	0.3 m ² (3.2 ft ²)
Size code 205 ^{(6)*}	0.5 m ² (5.3 ft ²)
Size code 209 ^(3,6)	1.0 m ² (10.7 ft ²)
Size code 219	1.0 m ² (10.7 ft ²)
Size code 216 ^(3,6)	1.8 m ² (19.3 ft ²)
Size code 409 ^(6,7)	2.1 m ² (22.5 ft ²)
Size code 410	2.5 m ² (26.9 ft ²)
Size code 416 ^(6,7)	3.7 m ² (39.8 ft ²)
Size code 421 ^(6,7)	5.0 m ² (53.8 ft ²)
Size code 509 ⁽⁸⁾	2.3 m ² (24.7 ft ²)
Size code 516 ⁽⁸⁾	4.0 m ² (43.0 ft ²)
Size code 520 ⁽⁸⁾	5.0 m ² (53.8 ft ²)
SUPRADisc™ II Modules (50 to 20,000+ L)	
Size code 232	1.8 m ² (19.4 ft ²)
Size code 420	2.5 m ² (26.5 ft ²)
Size code 440	5.0 m ² (54.0 ft ²)
Stax™ Capsules (50 to 20,000+ L)	
Small	0.5 m ² (5.38 ft ²) SL 0.25 m ² (2.70 ft ²) DL
Medium	1.0 m ² (10.80 ft ²) SL 0.5 m ² (5.38 ft ²) DL
Large	2.0 m ² (21.50 ft ²) SL 1.0 m ² (10.80 ft ²) DL

(1) SL = Single Layer Seitz® depth filter media such as P-series and Bio-series

(2) DL = Double Layer Seitz® depth filter media such as HP-series

(3) SUPRADisc™ I design only

(4) SUPRADisc™ I design only with PDxx media only

(5) SUPRADisc™ II design only

(6) Available in polyamide and polypropylene design

(7) Seitz® P-series, HP-series only

(8) Bio-series only

* Only available with Double O-ring

Ordering information

	Filter Module Type		Filter Size &Area
	Filter Media		Other options

SUPRAcap™ 50 Capsules

Part Number :

SC050

Example Part Number:

SC050PEKM

SUPRAcap™ 50 / PEKM (0.2 - 0.5 µm) filter media

Filter Media*			
Code	Filter Type	Code	Filter Type
PEKX	EKX-P	B010	Bio 10
PEKS	EKS-P	B020	Bio 20
PEKM	EKM-P	PDCX	PDCX
PEK1	SUPRA EK1P	PDC1	PDC1
P050	KS 50 P	PDD1	PDD1
P100	K 100 P	PDE1	PDE1
D50P	SUPRAdur 50 P	PDD2	PDD2
P080	SUPRA 80 P	PDL3	PDL3
V100	V100P	PDE2	PDE2
P200	K 200	PDH4	PDH4
P250	K 250	PDK5	PDK5
P700	K 700	PDK7	PDK7
P900	K 900 P	PDP8	PDP8
P1500	T1500P	PDK11	PDK11

*For HP series (PDxx), other combinations of P-series media are available.

SUPRAcap™ 100 Capsules

Part Number :



Example Part Number:

NP6PEKX9

SUPRAcap™ 100 / In-line / 10 in. / PEKX (0.05 - 0.2 µm) filter media / 25 mm (1 in.) single barb hose barb inlet and outlet

Other options

Code	Capsule Format
P	In-line
T	T-style

Filter Size

Code	Nominal Length
5L ⁽¹⁾	127 mm (5 in.)
6	254 mm (10 in.)
7	508 mm (20 in.)
8	762 mm (30 in.)

Filter Media*

Code	Filter Type	Code	Filter Type
PEKX	EKX-P	B010	Bio 10
PEKS	EKS-P	B020	Bio 20
PEKM	EKM-P	PDCX	PDCX
PEK1	SUPRA EK1P	PDC1	PDC1
P050	KS 50 P	PDD1	PDD1
P100	K 100 P	PDE1	PDE1
D50P	SUPRAdur 50 P	PDD2	PDD2
P080	SUPRA 80 P	PDL3	PDL3
V100	V100P	PDE2	PDE2
P200	K 200	PDH4	PDH4
P250	K 250	PDK5	PDK5
P700	K 700	PDK7	PDK7
P900	K 900 P	PDP8	PDP8
P1500	T1500P	PDK11	PDK11

*For HP series (PDxx), other combinations of P-series media are available.

Other options

Code	Connection Options
1	25 - 38 mm (1 – 1½ in.) sanitary flange inlet and outlet
9	25 mm (1 in.) single barb hose barb inlet and outlet
6 ⁽²⁾	13 mm (½ in.) single barb hose barb inlet and outlet
7 ⁽³⁾	6 mm (¼ in.) hose barb inlet and outlet

Note: Stäubli Vent and stepped hose barb drain fitted as standard

(1) Available only with in-line capsule format and connection codes 1, 6, or 7.

(2) Available only with in-line capsule formats.

(3) Available only with 127 mm (5 in.) capsule formats.

SUPRAcap™ 200 Capsules

Part Number :



Example Part Number:

C330PDH4S209SP

SUPRAcap™ 200 / SUPRAdisc™ I module / Increased cell distance / PDH4 (0.5 - 15.0 µm) filter media / Double O-ring adaptor / 1.0 m² Area / Silicone gaskets

Filter Module Type

Code	Contains Module Type
2	SUPRAdisc™ II
3	SUPRAdisc™ I

Other options

Code	Disc Spacing
00	Standard
30	Increased cell distance ⁽¹⁾
36	Without stainless steel ring in adaptor

Filter Media*

Code	Filter Type	Code	Filter Type
PEKX	EKX-P	B010	Bio 10
PEKS	EKS-P	B020	Bio 20
PEKM	EKM-P	PDCX	PDCX
PEK1	SUPRA EK1P	PDC1	PDC1
P050	KS 50 P	PDD1	PDD1
P100	K 100 P	PDE1	PDE1
D50P	SUPRAdur 50 P	PDD2	PDD2
P080	SUPRA 80 P	PDL3	PDL3
V100	V100P	PDE2	PDE2
P200	K 200	PDH4	PDH4
P250	K 250	PDK5	PDK5
P700	K 700	PDK7	PDK7
P900	K 900 P	PDP8	PDP8
P1500	T1500P	PDK11	PDK11

*For HP series (PDxx), other combinations of P-series media are available.

Filter Area

Code	Filter Area
209 ⁽¹⁾	1.0 m ² (10.0 ft ²)
210 ⁽²⁾	1.0 m ² (10.0 ft ²)
216 ⁽¹⁾	1.8 m ² (19.4 ft ²)
232 ⁽³⁾	1.8 m ² (19.4 ft ²)

(1) SUPRAdisc™ I design only

(2) SUPRAdisc™ I design only with PDxx media only

(3) SUPRAdisc™ II design only

Other options

Code	Seal Options
S	Silicone elastomer
F	FEP coated silicone
E	EPDM Elastomer

SUPRAdisc™ I Module

Part Number :



Example Part Number:

301B010S216SA

SUPRAdisc™ I Module / High Temperature / Bio10 (0.2 - 0.4 µm)
filter media / Double O-ring gasket / 1.8 m² Area / Silicone gaskets /
Polyamide design

Other options

Code	Disc Spacing
00	Standard
01	High Temperature

Filter Media*

Code	Filter Type	Code	Filter Type
PEKX	EKX-P	B010	Bio 10
PEKS	EKS-P	B020	Bio 20
PEKM	EKM-P	PDCX	PDCX
PEK1	SUPRA EK1P	PDC1	PDC1
P050	KS 50 P	PDD1	PDD1
P100	K 100 P	PDE1	PDE1
D50P	SUPRAdur 50 P	PDD2	PDD2
P080	SUPRA 80 P	PDL3	PDL3
V100	V100P	PDE2	PDE2
P200	K 200	PDH4	PDH4
P250	K 250	PDK5	PDK5
P700	K 700	PDK7	PDK7
P900	K 900 P	PDP8	PDP8
P1500	T1500P	PDK11	PDK11

*For HP series (PDxx), other combinations of P-series media are available.

Other options

Code	Adapter Options
S	Double O-ring
C	Flat gasket

Other options

Code	Seal Options
S	Silicone elastomer

Other seal options available on request

Filter Area

Code	Filter Area
203 ^{(1)**}	0.3 m ² (3.2 ft ²)
205 ^{(1)**}	0.5 m ² (5.4 ft ²)
209 ⁽¹⁾	1.0 m ² (10.7 ft ²)
216 ⁽¹⁾	1.8 m ² (19.4 ft ²)
409 ^(1,2)	2.1 m ² (22.6 ft ²)
416 ^(1,2)	3.7 m ² (39.8 ft ²)
421 ^(1,2)	5.0 m ² (53.8 ft ²)
509 ⁽³⁾	2.3 m ² (24.8 ft ²)
516 ⁽³⁾	4.0 m ² (43.0 ft ²)
520 ⁽³⁾	5.0 m ² (53.8 ft ²)

Other options

Code	Plastic Parts
P	Polypropylene
A	Polyamide ⁽⁴⁾

(1) Available in polyamide and polypropylene design

(2) Seitz® P-series, HP-series only

(3) Bio-series only

(4) High Temperature only

** Only available with Double O-ring

SUPRAdisc™ II Module

Part Number :



Example Part Number:

200P080C232SP

SUPRAdisc™ II Module / Supra 80 P (1.0 - 3.0 µm) filter media /
Flat gasket adapter / 1.8 m² Area / Silicone gaskets /
Polypropylene design

Filter Module Type

Code	Module Type
200	SUPRAdisc™ II

Filter Media*

Code	Filter Type	Code	Filter Type
PEKX	EKX-P	B010	Bio 10
PEKS	EKS-P	B020	Bio 20
PEKM	EKM-P	PDCX	PDCX
PEK1	SUPRA EK1P	PDC1	PDC1
P050	KS 50 P	PDD1	PDD1
P100	K 100 P	PDE1	PDE1
D50P	SUPRAdur 50 P	PDD2	PDD2
P080	SUPRA 80 P	PDL3	PDL3
V100	V100P	PDE2	PDE2
P200	K 200	PDH4	PDH4
P250	K 250	PDK5	PDK5
P700	K 700	PDK7	PDK7
P900	K 900 P	PDP8	PDP8
P1500	T1500P	PDK11	PDK11

*For HP series (PDxx), other combinations of P-series media are available.

Other options

Code	Adapter Options
S	Double O-ring
C	Flat gasket adapter

Filter Area

Code	Filter Area
232	1.8 m ² (19.4 ft ²)
440	5.0 m ² (53.8 ft ²)

Other options

Code	Seal Options
S	Silicone Elastomer

Stax™ Capsules Single Layer

Part Number :



Example Part Number:

SXSPEKS404SP

Stax™ Capsule / 0.5 m² Area, 58 mm High /
PEKS (0.1 - 0.3 µm) filter media / 4 Filter Layer

Filter Area & Size

Code	Filter Area	Nominal Height
S	0.5 m ² (5.38 ft ²)	58 mm (2.3 in.)
M	1.0 m ² (10.80 ft ²)	81 mm (3.2 in.)
L	2.0 m ² (21.50 ft ²)	129 mm (5.1 in.)

Filter Media

Code	Filter Type
PEKX	EKX-P
PEKS	EKS-P
PEKM	EKM-P
PEK1	SUPRA EK1P
P050	KS 50 P
P080	SUPRA 80 P
P100	K 100P
P200	K 200P
P250	K 250P
P700	K 700P
P900	K 900P
P1500	T 1500P
B010	Bio 10
B020	Bio 20

Filter Size

Code	Number of Filter Layers
04	4 (S code only)
08	8 (M code only)
16	16 (L code only)

Stax™ Capsules Double Layer

Part Number :

SX

4

SP

Example Part Number:

SXMPDD1404SP

Stax™ Capsule / 0.5 m² Area, 81 mm High /
PDD1 (0.1 - 0.85 µm) filter media / 4 Filter Layer

Filter Area & Size		
Code	Filter Area	Nominal Height
S	0.25 m² (2.70 ft²)	58 mm (2.3 in.)
M	0.5 m² (5.38 ft²)	81 mm (3.2 in.)
L	1.0 m² (10.80 ft²)	129 mm (5.1 in.)

Filter Media*	
Code	Filter Type
PDAX	PDAX
PDCX	PDCX
PDC1	PDC1
PDD1	PDD1
PDE1	PDE1
PDD2	PDD2
PDL3	PDL3
PDE2	PDE2
PDH4	PDH4
PDK5	PDK5
PDK7	PDK7
PDP8	PDP8
PDK11	PDK11

*For HP series (PDxx), other combinations of P-series media are available.

Filter Size	
Code	Number of Filter Layers
02	2 (S code only)
04	4 (M code only)
08	8 (L code only)

Air/Gas Filtration

Emflon™ Gas Filter Media



Product line and key feature

Sterilizing Grade			Bioburden Control
Emflon™ PFR	Emflon™ HTPFR	Emflon™ II	Emflon™ PFA
• 0.2 µm 이중층 제균 에어 필터, 소수성 PTFE 멤브레인 • 일반적인 스테인리스 스틸 보관 탱크, 세포 배양 바이오리액터에 적합	• 0.2 µm 이중층 제균 에어 필터, 소수성 PTFE 멤브레인 • 오존 처리된 물탱크, 바이오리액터/발효기의 산소 부화 (OEA), 고온 조건에 적합	• 0.2 µm 이중층 제균 에어 필터, 소수성 PVDF 멤브레인 • 감마선 조사로 사전 멸균이 가능해 Single Use System 에 적합	• 0.2 µm 단일층 바이오버든 제어 필터, 소수성 PTFE 멤브레인 • 중요도가 낮은 일반 벤트 및 가스에 사용

Technical Information - AB Style Cartridge

해당 기술 정보는 10 in. 카트리지 제품에 한하며 다른 타입에 관한 정보는 Cytiva에 문의 주시기 바랍니다.

Emflon™ PFR			Emflon™ HTPFR			Emflon™ II		Emflon™ PFA	
Materials of Construction									
Membrane	Double layer hydrophobic PTFE		Double layer hydrophobic PTFE			Double layer hydrophobic PVDF		Single layer hydrophobic PTFE	
Support and drainage layers	Polypropylene (PP), oxidation-resistant		Polyphenylene sulfide (PPS)			Polypropylene (PP), oxidation-resistant		Polypropylene (PP)	
Core, cage, end caps			Polypropylene (PP), oxidation-resistant						
Adapters	Polymeric, encapsulated in oxygen-resistant PP		Polypropylene (High-antioxidant adapters formulation) with encapsulated stainless steel reinforcing ring			Polypropylene with encapsulated stainless steel reinforcing ring		Polypropylene with encapsulated stainless steel reinforcing ring	
Service Life in Air									
Temperature	60 °C pressurized air	80 °C vent service	100 °C	110 °C	120 °C	60 °C pressurized air	60 °C pressurized air	80 °C vent service	
Service Life	12 months	6 months	12 months	6 months	2 months	> 12 months	12 months	6 months	

Emflon™ PFR			Emflon™ HTPFR		Emflon™ II		Emflon™ PFA	
Operating Parameters								
Maximum Differential Pressure								
5.3 bard (77 psid) at 20 °C 4.1 bard (60 psid) at 80 °C			5.4 bard (79 psid) at 40 °C 3.4 bard (49 psid) at 90 °C		4.1 bard (60 psid) at 140 °C		0.3 bard (4.3 psid) at 125 °C	
Autoclave / Steaming								
Max. Steaming Conditions	Pressure and Temperature	Cumulative Steaming Time	Pressure and Temperature	Cumulative Steaming Time	Pressure and Temperature	Cumulative Steaming Time	Temperature	Cumulative Steaming Time
Forward	1.0 bard (14.5 psid) at 125 °C	20 h (1 h cycles)	1.0 bard (14.5 psid) at 125 °C	20 h (1 h cycles)	0.3 bard (4.4 psid) at 142 °C	165 h (1 h cycles)	125 °C	100 h (1 h cycles)
	0.3 bard (4.4 psid) at 142 °C	165 h (1 h cycles)	0.3 bard (4.4 psid) at 142 °C	100 h (1 h cycles)			140 °C	45 h (1 h cycles)
Reverse	0.5 bard (7.3 psid) at 125 °C	20 h (1 h cycles)	0.5 bard (7.3 psid) at 125 °C	20 h (1 h cycles)				
Autoclave Sterilization					125 °C	100 h (1 h cycles)		
					140 °C	50 h (1 h cycles)		

Format guide

공정 개발 단계		공정 개발 및 임상 단계					
포맷							
제품명	Acro® 50 vent filter Capsules	Mini Kleenpak™ 20 Capsules	Mini Kleenpak™ Capsules	Kleenpak™ Capsules	Junior and Sealkleen filter Cartridges	Novasip™ Capsules	Membrane Filter Cartridges
유효여과면적	19.6 cm ²	20.0 cm ²	230 / 280 cm ²	380 to 2300 cm ²	410 to 2800 cm ²	500 to 2300 cm ²	5/10/20/30 in. (0.38 to 2.31 m ²)
적용 가능 재질	Emflon™ PFR	Emflon™ II	Emflon™ PFR, II	Emflon™ PFR, II	Emflon™ PFR	Emflon™ PFR	Emflon™ PFR, HTPFR, II, PFA

Ordering information

Filter Module Type

Filter Size & AreaFilter Media

Acro® 50 vent filter capsule (Emflon™ PFR Only)

Part Number :

6074270

Acro® 50 vent filters, 0.2 µm sterilizing grade, 19.6 cm² EFA, 6 – 13 mm (¼ - ½ in.) stepped hose barb connections, box of 72

Mini Kleenpak™ 20 capsule (Emflon™ II Only)

Part Number :

KM5V002P2G

Mini Kleenpak™ 20 filter capsule with 0.2 µm sterilizing grade, 20 cm², 6 – 13 mm (¼ - ½ in.) hose barb connections, supplied non-sterile, gamma-irradiatable / autoclavable, box of 3 or 100

Mini Kleenpak™ capsules (Emflon™ PFR, Emflon™ II)

Part Number :

KA

02

P*

*Pharmaceutical Grade

Example Part Number:

KA02V002P2S

Mini Kleenpak™ capsule / Emflon™ II, 230 cm² Area / Pharmaceutical Grade / 6 – 13 mm (¼ to ½ in.) hose barb connection / Gamma-irradiated

Filter Media & Area		
Code	Filter Type	Nominal Filter Area
PFR	Emflon™ PFR	280 cm² (0.30 ft²)
V002	Emflon™ II	230 cm² (0.25 ft²)

Other options	
Code	Connection Options
2	6 – 13 mm (¼ to ½ in.) hose barb
8	13 mm (½ in.) sanitary flange

Other options	
Code	Additional Options
Omit	Not applicable for PFR
**S	Gamma-irradiated
**G	Non-irradiated

**Code S and G applies only to Emflon™ II.

Kleenpak™ capsules (Emflon™ PFR, Emflon™ II)

Part Number :



*Pharmaceutical Grade

Example Part Number:

KA3V002PV6S

Kleenpak™ capsule / 210 mm (8.3 in.) / Emflon™ II, 1700 cm² Area / Pharmaceutical Grade / 13 mm (½ to ½ in.) hose barb connection / Gamma-irradiated

Filter Size

Code	Nominal Length ⁽¹⁾
1	90.5 – 158.0 mm (3.6 to 6.2 in.)
2	90.5 – 198.0 mm (3.6 to 7.8 in.)
3	105.5 – 210.0 mm (4.2 to 8.3 in.)

(1) It depends on inlet and outlet connection. Please contact Cytiva for more information.

Filter Media & Area

Code	Filter Type	Nominal Filter Area		
		KA1	KA2	KA3
PFR	Emflon™ PFR	400 cm ² (0.4 ft ²)	800 cm ² (0.9 ft ²)	2300 cm ² (2.5 ft ²)
V002	Emflon™ II	380 cm ² (0.4 ft ²)	820 cm ² (0.9 ft ²)	1700 cm ² (1.8 ft ²)

Other options

Code	Connection Options
(V) ⁽²⁾ 1	38 mm (1½ in.) sanitary flange
(V) ⁽²⁾ 2	6 – 13 mm (¼ – ½ in.) hose barb
(V) ⁽²⁾ 6	13 mm (½ in.) hose barb

(2) Code V applies only to Emflon™ II. [E.g. Emflon™ II: V1, Emflon™ PFR: 1.]

Other options

Code	Additional Options
Omit	Not applicable for PFR
**S	Gamma-irradiated
**G	Non-irradiated

**Code S and G applies only to Emflon™ II.

Junior and Sealkleen filter cartridges (Emflon™ PFR, Emflon™ II)

Part Number :



*Pharmaceutical Grade

Example Part Number:

MCY4463PFRPH4

Junior filter cartridge / 0.28 m² Area / Emflon™ PFR /
Pharmaceutical Grade / Silicone elastomer O-ring

Filter Module Type
Code
MCY
SBF
SLK

Filter Size
Size Code
1110
2230
3330
4440
4463
1
7001
7002

Filter Media & Area									
Nominal Filter Area									
Code	Filter Type	MCY1110	MCY2230	MCY3330	MCY4440	MCY4463	SBF1	SLK 7001	SLK 7002
PFR	Emflon™ PFR	0.05 m ² (0.5 ft ²)	0.14 m ² (1.5 ft ²)	0.17 m ² (1.8 ft ²)	0.23 m ² (2.5 ft ²)	0.28 m ² (3.0 ft ²)	0.04 m ² (0.4 ft ²)	0.14 m ² (1.5 ft ²)	0.28 m ² (3.0 ft ²)
V002	Emflon™ II	0.045 m ² (0.5 ft ²)	0.11 m ² (1.2 ft ²)	0.14 m ² (1.5 ft ²)	0.19 m ² (2.0 ft ²)	0.22 m ² (2.4 ft ²)	0.045 m ² (0.5 ft ²)	0.11 m ² (1.2 ft ²)	0.22 m ² (2.4 ft ²)

Other options	
Code	Seal Options
Omit	Not applicable for SLK series
H	Fluorocarbon elastomer
H1	FEP-encapsulated fluorocarbon elastomer
(V) ⁽¹⁾ H4	Silicone elastomer
(V) ⁽¹⁾ J	Ethylene propylene rubber

(1) Code VH4 and VJ applies only to Emflon™ II.

Novasip™ capsules (Emflon™ PFR Only)

Part Number :

PFR

P*

1

*Pharmaceutical Grade

Example Part Number:

C2PFRP1A

Novasip™ capsule / 0.17 m² Area / Emflon™ PFR / Pharmaceutical Grade / 25 – 38 mm (1 – 1½ in.) Sanitary flange fittings connection / Vent and Drain: Quick connect and disconnect coupling (compatible with Stäubli fitting) with valve

Filter Module Type
Code
CM
C

Filter Area	
Size Code	Nominal Filter Area
05	0.05 m ² (0.5 ft ²)
2	0.17 m ² (1.8 ft ²)
3	0.23 m ² (2.5 ft ²)

Other options
Connection Option
25 – 38 mm (1 – 1½ in.) Sanitary flange fittings

Other options	
Code	Vent, Drain and Valves
Omit	Vent: Quick connect and disconnect coupling (compatible with Stäubli* fitting) with valve Drain: Hose barb for 4 – 6 mm (1⁄8 – 1⁄4 in.) i.d. tube, with valve
A	Vent and Drain: Quick connect and disconnect coupling (compatible with Stäubli fitting) with valve
B	Vent and Drain: 13 mm (1⁄2 in.) sanitary flange, no valve

AB Style Cartridge Filters (Emflon™ PFR, Emflon™ HTPFR, Emflon™ II, Emflon™ PFA)

Part Number :



*P: Pharmaceutical Grade
**V: Oxidation resistant polypropylene hardware

Example Part Number:

AB05PFA2PVH4

AB style cartridge filter / 5 in. / Emflon™ PFA, 0.4 m² Area /
Double 226 O-ring with bayonet lock, no fin / Pharmaceutical Grade /
Oxidation resistant polypropylene hardware /
Silicone elastomer O-ring

AB2V0027PVJ

AB style cartridge filter / 20 in. / Emflon™ II, 1.32 m² Area /
Double 226 O-ring with bayonet lock and finned cap /
Pharmaceutical Grade / Oxidation resistant polypropylene hardware /
Ethylene propylene rubber O-ring

Filter Size	
Code	Nominal Length
05	127 mm (5 in.)
1	254mm (10 in.)
2	508 mm (20 in.)
3	762 mm (30 in.)

Filter Media & Area					
		Nominal Filter Area			
Code	Filter Type	AB05	AB1	AB2	AB3
PFR	Emflon™ PFR	0.38 m ² (4.1 ft ²)	0.77 m ² (8.3 ft ²)	1.54 m ² (16.6 ft ²)	2.31 m ² (24.9 ft ²)
HTPFR	Emflon™ HTPFR	0.42 m ² (4.5 ft ²)	0.84 m ² (9.0 ft ²)	1.68 m ² (18.1 ft ²)	2.52 m ² (36.2 ft ²)
V002	Emflon™ II	0.33 m ² (3.6 ft ²)	0.66 m ² (7.1 ft ²)	1.32 m ² (14.2 ft ²)	1.98 m ² (21.3 ft ²)
PFA	Emflon™ PFA	0.40 m ² (4.3 ft ²)	0.80 m ² (8.6 ft ²)	1.60 m ² (17.2 ft ²)	2.40 m ² (25.8 ft ²)

Other options	
Code	Adapter Options
2 ⁽¹⁾	Double 226 O-ring with bayonet lock, no fin
7	Double 226 O-ring with bayonet lock and finned cap

(1) AB05 Filter cartridges only

Other options	
Code	Seal Options
H	Fluorocarbon elastomer
H1	FEP-encapsulated fluorocarbon elastomer
H4	Silicone elastomer
J	Ethylene propylene rubber

Virus Removal Filtration

Ultipor® and Pegasus™ Virus Filter Media



Product line and key feature

Ultipor® VF grade DV20	Pegasus™ SV4	Pegasus™ Prime	Pegasus™ Protect
• 20 nm 친수성 변형 PVDF 멤브레인 • > 3 LRV 20nm 바이러스 제거능 • > 6 LRV 50nm 바이러스 제거능 • 일반적인 동물세포 유래 바이러스 제거에 적합	• 20 nm 친수성 변형 PVDF 멤브레인 • > 4 LRV 박테리오파지 PP7 제거능 • 오염도(Fouling)가 높은 물질에 적합	• 20 nm 친수성 비대칭형 PES 멤브레인 • > 4 LRV 파보바이러스 제거능 • 빠른 유속 및 높은 처리량 • 호환 Pre-Filter(PF) 보유 Area ratio = 1.4(VF) : 1(PF)	• 0.2 µm Nylon 멤브레인 • Virus filter의 사전필터 (pre-filter) 로 막힘 현상(plugging)을 방지 • 공정 안정성을 보장하고 빠른 처리 속도 및 높은 처리량으로 의약품 원가 절감에 도움

Technical Information - AB Style Cartridge

해당 기술 정보는 10 in. 카트리지 제품에 한하며 다른 타입에 관한 정보는 Cytiva에 문의 주시기 바랍니다.

	Ultipor® VF grade DV20	Pegasus™ SV4	Pegasus™ Prime	Pegasus™ Protect
Materials of Construction				
Membrane	Hydrophilic modified polyvinylidene fluoride (PVDF)	Hydrophilic modified polyvinylidene fluoride (PVDF)	Hydrophilic modified polyethersulfone (PES)	Nylon
Support and drainage layers	Polyester	Polyester	Polyester	Polyester
Core, cage, end caps	Polypropylene	Polypropylene	Polypropylene	Core and cage: Polypropylene End caps: Polyester
Adapters	Polypropylene with encapsulated stainless steel reinforcing ring	Polypropylene with encapsulated stainless steel reinforcing ring	Polypropylene with encapsulated stainless steel reinforcing ring	Polyester
O-rings	Silicone	Silicone	Silicone	Silicone
Retention ratings				
Pore size	20 nm (nominal)	20 nm (nominal)	20 nm (nominal)	0.2 µm (nominal)
Virus Retention	> 3 log reduction value for bacteriophage PP7 > 6 log reduction value for bacteriophage PR772	> 4 log reduction value for bacteriophage PP7	> 4 log reduction value for mammalian parvoviruses	N/A

	Ultipor® VF grade DV20	Pegasus™ SV4	Pegasus™ Prime	Pegasus™ Protect
Operating Parameters				
Recommended Operating Differential Pressure	1.0 to 2.0 bard (14.5 to 29.0 psid)	2.1 to 3.1 bard (30 to 45 psid)	2.1 to 3.1 bard (30 to 45 psid)	0.07 bard (1.1 psid) or 7.3 L/min/10 in. (when used with filter cartridges or Kleenpak™ Nova capsules with Pegasus™ Prime virus removal media at 2.1 bard (30 psid))
Maximum Differential Pressure	3.1 bard (45 psid) for continuous service 0.3 bard (4.3 psid) during steam sterilization 6.2 bard (90 psid) during integrity testing only	3.1 bard (45 psid) for continuous service 0.3 bard (4.3 psid) during steam sterilization 6.2 bard (90 psid) during integrity testing only	4.15 bard (60 psid) for continuous service	3.0 bard (43.5 psid) at 40 °C 5.4 bard (76.0 psid) at 20 °C

Sterilization

Sterilization			Supplied sterile (gamma-irradiated at > 25 kGy)	For Code S* Supplied sterile (gamma-irradiated at > 25 kGy)	
Autoclave / Streaming	Autoclavable or steamable in-situ	Autoclavable or steamable in-situ	Pegasus™ Prime filters must not be autoclaved or steamed for sterilization	Temper- ature	Cumulative autoclave time
				125 °C	16 h (1 h cycles)
				140 °C	4 h (1 h cycles)

Format guide

	공정 개발 단계			공정 개발 및 임상 단계			
	35 to 280 mL	30 to 300 mL	4 to 20 L	20 to 100 L	100 to 500 L	200 to 1,000 L	> 1,000 L
포맷							
제품명	Microdisc Capsules	Minidisc Capsules	Mini Kleenpak™ Capsules	Kleenpak™ Nova 1 in. Capsule	Kleenpak™ Nova 5 in. Capsule	Kleenpak™ Nova 10 in. Capsule	Membrane Filter Cartridges
유효여과면적	2.8 cm²	9.6 cm²	580 / 204 cm²	0.25 / 0.1 m²	0.5 m²	2.25 / 1.0 m²	10/20/30 in. (1.0/2.0/ 3.0 m²)
적용 가능 재질	Pegasus™ Prime	Ultipor® DV20, Pegasus™ SV4	Pegasus™ SV4, Prime	Pegasus™ SV4, Prime	Pegasus™ Prime	Pegasus™ SV4, Prime	Ultipor® DV20, Pegasus™ SV4, Prime

Ordering information

Filter Module Type

Filter Size &AreaFilter Media

Microdisc capsules (Pegasus™ Prime, Pegasus™ Protect)

Part Number :

MCF

Example Part Number:

3MCFPRM12

Pegasus™ Prime, 2.8 cm² Area / Microdisc capsules / Box of 12

Filter Area		
Code	Filter Type	Nominal Filter Area
3	Pegasus™ Prime	2.8 cm²
4	Pegasus™ Protect	3.9 cm²

Filter Media	
Code	Filter Type
PRM	Pegasus™ Prime
PRT	Pegasus™ Protect

Other options	
Code	Packaging
4	Box of 4
12	Box of 12

Other options	
Code ⁽¹⁾	Additional Options
Omit	Suitable for Autoclave
R	Provided Gamma Irradiated

(1) Pegasus™ Protect only

Minidisc capsules (Ultipor® VF grade DV20, Pegasus™ SV4)

Part Number :

MCF

Example Part Number:

10MCFSV4

9.6 cm² Area / Minidisc capsules / Pegasus™ SV4

Filter Area	
Code	Nominal Filter Area
10	9.6 cm²

Filter Media	
Code	Filter Type
DV20	Ultipor® DV20
SV4	Pegasus™ SV4

Mini Kleenpak™ capsules (Pegasus™ SV4, Pegasus™ Prime)

Part Number :

KA

02

FT*

Example Part Number:

KA02PRM8FT

Mini Kleenpak™ capsule / Pegasus™ Prime, 204 cm² Area /
Filterability Tool version

Filter Media & Area		
Code	Filter Type	Nominal Filter Area
SV42	Pegasus™ SV4	580 cm² (0.6 ft²)
PRM8	Pegasus™ Prime	204 cm² (0.2 ft²)

*FT: Filterability Tool version (FT). Not qualified for virus removal. For filterability tests only

Kleenpak™ capsules (Pegasus™ Protect Only)

Part Number :

KA

1

PRT

18*

FT**

Example Part Number:

KA1PRT18FTR

Kleenpak™ capsule / Pegasus™ Protect, 286 cm² Area / 25 mm
(1 in.) sanitary flange inlet and 13 mm (½ in.) sanitary flange outlet /
Filterability Tool version / Gamma Irradiated

Filter Media & Area		
Code	Filter Type	Nominal Filter Area
PRT	Pegasus™ Protect	286 cm² (0.3 ft²)

Other options	
Code	Additional Options
Omit	Suitable for Autoclave
R	Provided Gamma Irradiated

*18: Connection Option, 25 mm (1 in.) sanitary flange inlet and 13 mm (½ in.) sanitary flange outlet connection

**FT: Filterability Tool version (FT). Not qualified for virus removal. For filterability tests only

Kleenpak™ Nova capsules (Pegasus™ SV4, Pegasus™ Prime, Pegasus™ Protect)

Part Number :



Example Part Number:

NT6UPRMP1S

Kleenpak™ Nova capsule / T-Style / 10 in. / Pegasus™ Prime,
1.00 m² Area / 25mm (1 in.) sanitary flange connections /
Gamma Irradiated

NP6LUPRMP1S

Kleenpak™ Nova capsule / In-line Style / 10 in. / Pegasus™ Prime,
1.00 m² Area / 25mm (1 in.) sanitary flange connections /
Gamma Irradiated

Other options

Code	Capsule Format
P	In-line
T	T-Style

Filter Size

Code	Nominal Length
1 ⁽¹⁾	25 mm (1 in.)
5 ⁽²⁾	127 mm (5 in.)
6	254 mm (10 in.)
7	508 mm (20 in.)
8	762 mm (30 in.)

(1) Pegasus™ SV4, Pegasus™ Prime design

(2) Pegasus™ Prime design only

Other options

Code	Description
L	included in part number for in-line (NP) filters
Omit	Omitted for T style filters (NT)

Filter Media & Area

Nominal Filter Area						
Code	Filter Type	NP(T)1	NP(T)5	NP(T)6	NP(T)7	NP(T)8
USV4	Pegasus™ SV4	0.25 m² (2.7 ft²)	N/A	2.25 m² (24.2 ft²)	4.50 m² (48.4 ft²)	6.75 m² (72.7 ft²)
UPRM	Pegasus™ Prime	0.10 m² (1.1 ft²)	0.50 m² (5.4 ft²)	1.00 m² (10.8 ft²)	2.00 m² (21.5 ft²)	3.00 m² (32.3 ft²)
PRT	Pegasus™ Protect	N/A	N/A	0.70 m² (7.5 ft²)	1.40 m² (15.1 ft²)	2.10 m² (22.6 ft²)

Other options

Code	Connection Option
1	25mm (1 in.) sanitary flange connections

Other options

Code	Additional Options
Omit ⁽³⁾	Suitable for Autoclave
S ⁽⁴⁾	Gamma-irradiated
G ⁽⁵⁾	Non-irradiated, Suitable for gamma Irradiation, Suitable for Autoclave

(3) Pegasus™ SV4 design only

(4) Pegasus™ Prime, Pegasus™ Protect design

(5) Pegasus™ Protect design only

AB Style Cartridge Filters (Ultipor® DV20, Pegasus™ SV4, Pegasus™ Prime, Pegasus™ Protect)

Part Number :

AB

7*

P

H4**

Example Part Number:

AB2UDV207PH4

AB Style Cartridge Filter / 20 in. / Ultipor® DV20 (Laid-over Plate)
4.00 m² Area / Double 226 O-ring with bayonet lock and finned cap /
Silicone O-ring

Filter Size	
Code	Nominal Length
1	254 mm (10 in.)
2	508 mm (20 in.)
3	762 mm (30 in.)

Filter Media & Area		Nominal Filter Area		
Code	Filter Type	AB1	AB2	AB3
UDV20	Ultipor® DV20 (Laid-over Pleat)	2.00 m ² (21.5 ft ²)	4.00 m ² (43.1 ft ²)	6.00 m ² (64.6 ft ²)
USV4	Pegasus™ SV4	2.25 m ² (24.2 ft ²)	4.50 m ² (48.4 ft ²)	6.75 m ² (72.7 ft ²)
UPRM	Pegasus™ Prime	1.00 m ² (10.8 ft ²)	2.00 m ² (21.5 ft ²)	3.00 m ² (32.3 ft ²)
PRT	Pegasus™ Protect	0.70 m ² (7.5 ft ²)	1.40 m ² (15.1 ft ²)	2.10 m ² (22.6 ft ²)

*7: Adapter Option, Double 226-Orring with bayonet lock and finned cap

**H4: Seal Option, Silicone elastomer

Microbial Control Filtration

Ultipor®, Fluorodyne® and Supor® Filter Media



Product line and key feature

Bioburden Control	Sterilizing Grade	Sterilizing Grade / Mycoplasma Control
• 0.45 or 0.2 μm 단일층 친수성 PES 멤브레인 • 높은 미생물 및 파티클 감소율을 보장하여 공정 중 미생물 오염 위험 완화 • Ultipor® (Nylon) Supor® EAV (PES) Fluorodyne® II DBL (PVDF)	• 0.2 μm 이중층 제균 친수성 PVDF or PES 멤브레인 • 빠른 유량과 높은 수준의 제균 여과 효율 및 처리량 제공 • Ultipor® NF, NFZ Supor® Prime, Supor® EKV, Supor® EX ECV (PES), Fluorodyne® II DFL (PVDF), Fluorodyne® EX EDF (PES/PVDF)	• 0.1 μm 이중층 제균 친수성 PVDF or PES 멤브레인 • 높은 수준의 제균 및 마이코플라즈마 제거 효율 제공 • Fluorodyne® II DJL (PVDF), Fluorodyne® EX EDT (PES/PVDF)

Technical Information - AB Style Cartridge

해당 기술 정보는 10 in. 카트리지 제품에 한하며 다른 타입에 관한 정보는 Cytiva 에 문의 주시기 바랍니다.

Bioburden Control(Single Layer)					
Removal Rating	0.2	0.45	0.2		
Family	Ultipor®	Fluorodyne® II	Supor®	Ultipor®	Posidyne®
Grade	NA	DBL	EAV	NF	NFZ
Membrane Material	Nylon 6,6	Hydrophilic PVDF	Hydrophilic PES	Nylon 6,6	Nylon 6,6, positive-charged
Membrane Pairing	Symmetric / Symmetric	Symmetric / Symmetric	Asymmetric	Symmetric / Symmetric	Symmetric / Symmetric
Support and Drainage	PET	PP	PP	PP	PP
Core, Cage, Endcaps					
Nominal Filter Area(m ²) per 10 in.	0.84	0.55	1.06	0.79	0.79
Flow DP in L/min @ 100 mbar/ 10 in. filter	10.0	14.0	20.0	5.0	5.0
Microbial Removal Ratings (Titer Reduction)	<i>Brevundimonas Diminuta</i> >1 x 10 ⁶ cfu/cm ²	<i>Serratia marcescens</i> >1 x 10 ⁶ cfu/cm ²	<i>Brevundimonas Diminuta</i> >1 x 10 ⁶ cfu/cm ²	<i>Brevundimonas Diminuta</i> >1 x 10 ⁷ cfu/cm ²	<i>Brevundimonas Diminuta</i> >1 x 10 ⁷ cfu/cm ²
Operating Parameters					
Maximum Differential Pressure and Temperature	5.5 bard (80 psid) at 50 °C 4.1 bard (60 psid) at 80 °C 2.1 bard (30 psid) at 125 °C	5.3 bard (77 psid) at 50 °C 3.4 bard (49 psid) at 80 °C	5.5 bard (80 psid) at 40 °C 3.0 bard (43.5 psid) at 80 °C	5.5 bard (80 psid) at 50 °C 4.1 bard (60 psid) at 80 °C 2.1 bard (30 psid) at 125 °C	5.5 bard (80 psid) at 50 °C 4.1 bard (60 psid) at 80 °C 2.1 bard (30 psid) at 125 °C
Sterilization					
Max. Steaming Conditions (Forward, 1 h cycles)	16 hours at 121 °C 4 hours at 140 °C	30 hours at 125 °C 10 hours at 140 °C	10 hours at 125 °C	16 hours at 125 °C 4 hours at 140 °C	16 hours at 121 °C 4 hours at 140 °C

Format guide

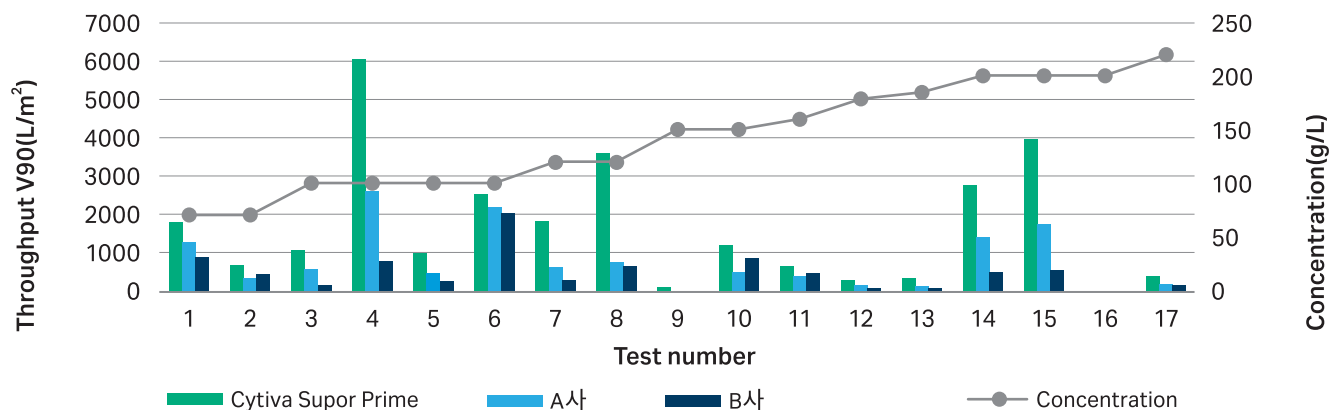
	공정 개발 단계		공정 개발 및 임상 단계			
	50mL to >2 L	50mL to 2L	2 to 50 L	3 to 200L	20 to 1,000 L	>1,000 L
포맷						
제품명	47 mm disc	Mini Kleenpak™ 20 Capsules	Mini Kleenpak™ Capsules	Kleenpak™ Capsules	Kleenpak™ Nova Capsules	Membrane Filter Cartridges
유효여과면적	17 cm ² (*Holder 사용시 9.6 or 11.1 cm ²)	20 cm ²	200 to 260 cm ²	375 to 1500 cm ²	0.1 to 2 m ²	10/20/30 in. (1.0/2.0/ 3.0 m ²)
적용 가능 재질	모든 타입	EAV, EDF, EKV, DFL, DJL	EAV, DFL, EKV, EDF, ECV, DJL, EDT	DBL, EAV, NF, NFZ, DFL, EKV, EDF, DJL	DBL, EAV, NF, NFZ, DFL, EKV, EDF, ECV, DJL, EDT	모든 타입

Sterilizing Grade(Double Layer)				Sterilizing Grade / Mycoplasma Control	
0.2				0.1	
Supor®	Fluorodyne® EX	Supor® EX	Supor®	Fluorodyne® II	Fluorodyne® EX
EKV	EDF	ECV	Prime ^{NEW}	DJL	EDT
Hydrophilic PES	Hydrophilic PES/PVDF	Hydrophilic PES	Hydrophilic PES	Hydrophilic PVDF	Hydrophilic PES/PVDF
Asymmetric/ Symmetric	Asymmetric/ Symmetric	Asymmetric/ Symmetric	Asymmetric/ Symmetric	Symmetric / Symmetric	Asymmetric/ Symmetric
PP	PP	PP	PP	PP	PP
0.60	1.10	1.04	1.34	0.55	0.95
13.0	11.0	17.0	18.0	4.2	2.7
<i>Brevundimonas Diminuta</i> >1 x 10 ⁷ cfu/cm ²	<i>Brevundimonas Diminuta</i> >1 x 10 ⁷ cfu/cm ²	<i>Brevundimonas Diminuta</i> >1 x 10 ⁷ cfu/cm ²	<i>Brevundimonas Diminuta</i> >1 x 10 ⁷ cfu/cm ²	<i>Brevundimonas Diminuta</i> >1 x 10 ⁷ cfu/cm ² <i>Acholeplasma laidlawii</i> >1 x 10 ⁸ cfu/cm ²	<i>Brevundimonas Diminuta</i> >1 x 10 ⁷ cfu/cm ² <i>Acholeplasma laidlawii</i> >1 x 10 ⁸ cfu/cm ²
5.5 bard (80 psid) at 50 °C 4.0 bard (58 psid) at 80 °C	5.5 bard (80 psid) at 50 °C 4.0 bard (58 psid) at 80 °C	5.0 bard (73 psid) at 40 °C 3.0 bard (44 psid) at 80 °C	5.0 bard (73 psid) at 40 °C 3.0 bard (44 psid) at 80 °C	5.3 bard (77 psid) at 50 °C 3.4 bard (49 psid) at 80 °C	5.5 bard (80 psid) at 50 °C 4.0 bard (58 psid) at 80 °C
30 hours at 125 °C 5 hours at 140 °C	5 hours at 135 °C	5 hours at 125 °C 1 hours at 135 °C	2 hours at 135 °C	60 hours at 125 °C 10 hours at 142 °C	10 hours at 125 °C 5 hours at 135 °C

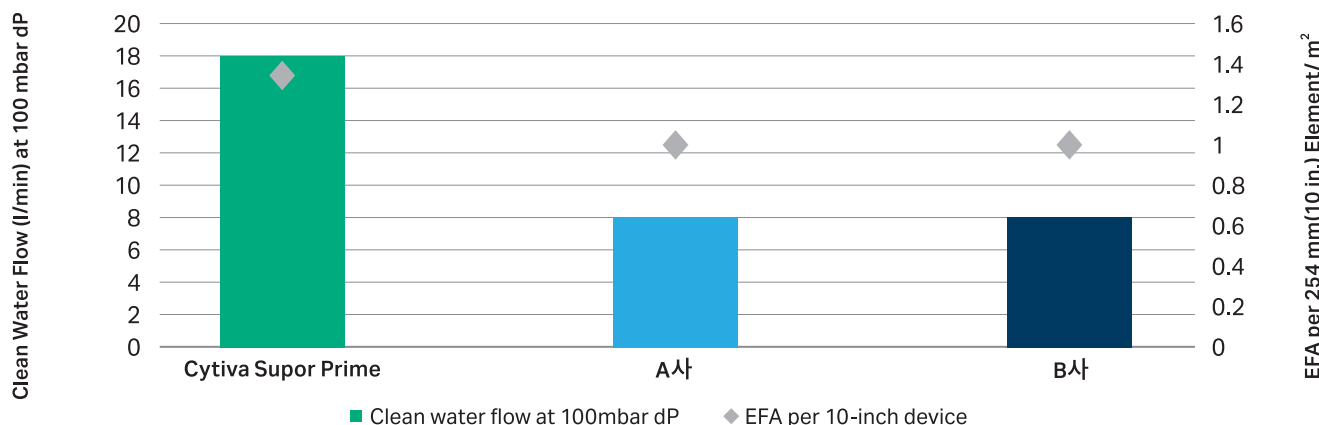
New! Supor® Prime Filter Media

새롭게 출시된 Supor® Prime은 다음과 같은 이점을 제공합니다.

1) 고농도 단일클론항체 (up to 220 g/L) 높은 여과 용량 제공



2) 더 빠른 유속 및 넓은 필터 면적 제공



3) 제품 개발 단계에 따른 다양한 규모의 프로세스에 적용 가능한 포맷



▶ 더 자세한 사항은
이 곳에서 문의하세요.

Ordering information

	Filter Module Type		Filter Size & Area
	Filter Media		Other options

Mini Kleenpak™ 20 capsules (EAV, EKV, DFL, EDF, DJL)

Part Number :



Example Part Number:

KM5EKVP2S

Mini Kleenpak™ 20 capsule / Supor® EKV, 0.2 µm Sterilizing grade,
20 cm² Area / 6 – 13 mm (¼- ½ in.) stepped hose barb /
Gamma-Irradiated

Filter Media & Area		
Code	Filter Type	Nominal Filter Area
EAV	Supor® EAV, 0.2 µm Bio-burden control	20 cm ²
EKV	Supor® EKV, 0.2 µm Sterilizing grade	
DFL	Fluorodyne® II DFL, 0.2 µm Sterilizing grade	
EDF	Fluorodyne® EX EDF, 0.2 µm Sterilizing grade	
DJL	Fluorodyne® II DJL, 0.1 µm Sterilizing grade	

*2: Connection Option, 6 – 13 mm (¼- ½ in.) stepped hose barb with inner bore to accept female slip luer interior and outer diameter to accept filling bell outlet

**S: Additional Option, Pre-sterilized using gamma irradiation.

Mini Kleenpak™ capsules (EAV, DFL, EKV, EDF, ECV, DJL, EDT)

Part Number :



Example Part Number:

KA02DJL8G

Mini Kleenpak™ capsule / Fluorodyne® II DJL, 0.1 µm Sterilizing
grade, 200 cm² Area / 13 – 19 mm (½ – ¾ in.) sanitary flange /
Non-irradiated

Filter Media & Area		
Code	Filter Type	Nominal Filter Area
EAV	Supor® EAV, 0.2 µm Bio-burden control	260 cm ²
DFL	Fluorodyne® II DFL, 0.2 µm Sterilizing grade	200 cm ²
EKV	Supor® EKV, 0.2 µm Sterilizing grade	220 cm ²
EDF	Fluorodyne® EX EDF, 0.2 µm Sterilizing grade	230 cm ²
ECV	Supor® EX ECV, 0.2 µm Sterilizing grade	220 cm ²
DJL	Fluorodyne® II DJL, 0.1 µm Sterilizing grade	200 cm ²
EDT	Fluorodyne® EX EDT, 0.1 µm Sterilizing grade	200 cm ²

Other options	
Code	Connection Options
2	6 – 13 mm (¼ – ½ in.) stepped hose barb
8	13 – 19 mm (½ – ¾ in.) sanitary flange

Other options	
Code	Additional Options
S	Gamma-irradiated
G	Non-irradiated, Suitable for gamma Irradiation, Suitable for Autoclave

Kleenpak™ capsules (DBL, EAV, NF, NFZ, DFL, EKV, EDF, DJL)

Part Number :



Example Part Number:

KA3EKVP16S

Kleenpak™ capsule 7.6 in. / Supor® EKV, 0.2 µm Sterilizing grade, 1500 cm² Area / 38 mm (1½ in.) sanitary flange inlet and 13 mm (½ in.) single hose barb outlet / Gamma-irradiated

Filter Size	
Code	Nominal Length ⁽¹⁾
1	117 – 158 mm (4.6 to 6.2 in.)
2	157 – 198 mm (6.2 to 7.8 in.)
3	105 – 210 mm (4.1 to 8.3 in.)

(1) It depends on inlet and outlet connection. Please contact Cytiva for more information.

Filter Media & Area				
Code	Filter Type	Nominal Filter Area		
		KA1	KA2	KA3
DBL	Fluorodyne® II DBL	400 cm² (0.4 ft²)	800 cm² (0.9 ft²)	1500 cm² (1.6 ft²)
EAV	Supor® EAV	N/A	N/A	2100 cm² (2.3 ft²)
NF	Ultipor® NF	500 cm² (0.5 ft²)	900 cm² (1.0 ft²)	2300 cm² (2.5 ft²)
NFZ	Posidyne® NFZ	500 cm² (0.5 ft²)	900 cm² (1.0 ft²)	2300 cm² (2.5 ft²)
DFL	Fluorodyne® II DFL	400 cm² (0.4 ft²)	800 cm² (0.9 ft²)	1500 cm² (1.6 ft²)
EKV	Supor® EKV	380 cm² (0.4 ft²)	790 cm² (0.9 ft²)	1500 cm² (1.6 ft²)
EDF	Fluorodyne® EX EDF	N/A	750 cm² (0.9 ft²)	N/A
DJL	Fluorodyne® II DJL	400 cm² (0.4 ft²)	800 cm² (0.9 ft²)	1500 cm² (1.6 ft²)

Other options	
Code	Connection Options
1	25 – 38 mm (1½ in.) sanitary flange
2 ⁽²⁾	6 – 13 mm (¼ – ½ in.) stepped hose barb
6	13 mm (½ in.) single hose barb
16 ⁽³⁾	38 mm (1½ in.) sanitary flange inlet and 13 mm (½ in.) single hose barb outlet

(2) Available for Fluorodyne® II DBL, DFL, DJL and Ultipor® NF, NFZ

(3) Available for Fluorodyne® II DBL, DFL, DJL and Supor® EAV, EKV

Other options	
Code	Additional Options
S	Gamma-irradiated
G	Non-irradiated, Suitable for gamma Irradiation, Suitable for Autoclave

Kleenpak™ Spectrum Medium capsules (Supor® Prime Only)

Part Number :



Example Part Number:

MC200ASFP82AS

Kleenpak™ Spectrum Medium capsules / Supor® Prime, 0.2 µm Sterilizing grade, 240 cm² Area / 13 mm (½ in.) sanitary flange inlet and 6 mm (¼ in.) hose barb outlet / Gamma-irradiated

Filter Media & Area		
Code	Filter Type	Nominal Filter Area
ASF	Supor® Prime, 0.2 µm Sterilizing grade	240 cm ² (0.3 ft ²)

Other options	
Code	Connection Options
2	6 mm (¼ in.) hose barb inlet and outlet
8	13 mm (½ in.) sanitary flange inlet and outlet
82	13 mm (½ in.) sanitary flange inlet and 6 mm (¼ in.) hose barb outlet

Other options	
Code	Additional Options
S	Gamma-irradiated
G	Non-irradiated, Suitable for gamma Irradiation, Suitable for Autoclave

Kleenpak™ Nova capsules (DBL, EAV, NF, NFZ, DFL, EKV, EDF, ECV, DJL, EDT)

Part Number :



Example Part Number:

NP6UEDFP16S

Kleenpak™ Nova capsule / In-line / 10 in. / Fluorodyne® EX EDF, 0.2 µm Sterilizing grade, 1.10 m² Area / 25 – 38 mm (1 – 1½ in.) sanitary flange inlet and 13 mm (½ in.) single barb hose barb outlet / Gamma-irradiated

Other options

Code	Capsule Format
P	In-line
T	T-Style

Filter Size

Code	Nominal Length
1L ⁽¹⁾	25 mm (1 in.)
5 ⁽²⁾ (L) ⁽³⁾	127 mm (5 in.)
6	254 mm (10 in.)
7	508 mm (20 in.)
8	762 mm (30 in.)

(1) (In-line Style) Supor® ECV design only

(2) (In-line Style) Fluorodyne® II DFL, DJL and Supor® EAV, ECV, EKV, EDF, EDT

(3) (In-line Style) Supor® EAV, ECV, EKV, EDF, EDT

Filter Media & Area

		Nominal Filter Area				
Code	Filter Type	NP1	NP5	NP(T) 6	NP(T)7	NP(T)8
DBL	Fluorodyne® II DBL	N/A	N/A	0.55 m ² (5.9 ft ²)	1.10 m ² (11.8 ft ²)	1.65 m ² (17.8 ft ²)
UEAV	Supor® EAV		0.51 m ² (5.5 ft ²)	1.06 m ² (11.4 ft ²)	2.12 m ² (22.8 ft ²)	3.18 m ² (34.2 ft ²)
NF	Ultipor® NF		N/A	0.50 m ² (5.4 ft ²)	1.00 m ² (10.8 ft ²)	1.50 m ² (16.1 ft ²)
NFZ	Posidyne® NFZ			0.50 m ² (5.4 ft ²)	1.00 m ² (10.8 ft ²)	1.50 m ² (16.1 ft ²)
DFL	Fluorodyne® II DFL		0.27 m ² (2.9 ft ²)	0.55 m ² (5.9 ft ²)	1.10 m ² (11.8 ft ²)	1.65 m ² (17.8 ft ²)
EKV	Supor® EKV		0.26 m ² (2.8 ft ²)	0.60 m ² (6.5 ft ²)	1.20 m ² (12.9 ft ²)	1.80 m ² (19.4 ft ²)
UEDF	Fluorodyne® EX EDF		0.53 m ² (5.6 ft ²)	1.10 m ² (11.8 ft ²)	2.20 m ² (23.7 ft ²)	3.30 m ² (35.5 ft ²)
UECV	Supor® EX ECV	0.10 m ² (1.1 ft ²)	0.52 m ² (5.6 ft ²)	1.04 m ² (11.2 ft ²)	2.08 m ² (22.4 ft ²)	3.12 m ² (33.6 ft ²)
DJL	Fluorodyne® II DJL	N/A	0.27 m ² (2.9 ft ²)	5.50 m ² (5.9 ft ²)	1.10 m ² (11.8 ft ²)	1.65 m ² (17.8 ft ²)
UEDT	Fluorodyne® EX EDT		0.46 m ² (5.0 ft ²)	9.50 m ² (10.2 ft ²)	1.90 m ² (20.5 ft ²)	2.85 m ² (30.7 ft ²)

Other options

Code	Connection Options
1	25 – 38 mm (1 – 1½ in.) sanitary flange inlet and outlet
9	25 m (1 in.) single barb hose barb inlet and outlet
19	25 – 38 mm (1 – 1½ in.) sanitary flange inlet and 25 mm (1 in.) single barb hose barb outlet
6 ⁽⁴⁾	13 mm (½ in.) single barb hose barb inlet and outlet
16 ⁽⁴⁾	25 – 38 mm (1 – 1½ in.) sanitary flange inlet and 13 mm (½ in.) single barb hose barb outlet
1H ⁽⁵⁾	25 – 38 mm (1 – 1½ in.) sanitary flange inlet and outlet, with 13 mm (½ in.) sanitary port on inlet
1H9 ⁽⁵⁾	25 – 38 mm (1 – 1½ in.) sanitary flange inlet and 25 mm (1 in.) single barb hose barb outlet with 13 mm (½ in.) sanitary port on inlet

(4) For In-line (Code P) only

(5) For T-Style (Code T) only

Other options

Code	Additional Options
S	Gamma-irradiated
G	Non-irradiated, Suitable for gamma Irradiation, Suitable for Autoclave

AB Style Cartridge Filters(모든 타입)

Part Number :



Example Part Number:

AB1UASF7PH4

AB style cartridge filter / 10 in. / Supor® Prime,
0.2 µm Sterilizing grade, 1.34 m² Area / Double 226 O-ring
with bayonet lock and finned cap / Silicone elastomer

Filter Size

Code	Nominal Length
05	125 mm (5 in.)
1	254mm (10 in.)
2	508 mm (20 in.)
3	762 mm (30 in.)

Filter Media & Area

Code	Filter Type	Nominal Filter Area			
		AB05	AB1	AB2	AB3
NA	Ultipor® NA	N/A	0.84 m ² (9.0 ft ²)	1.68 m ² (18.1 ft ²)	2.52 m ² (27.1 ft ²)
DBL	Fluorodyne® II DBL	0.27 m ² (2.9 ft ²)	0.55 m ² (5.9 ft ²)	1.10 m ² (11.8 ft ²)	1.65 m ² (17.8 ft ²)
UEAV	Supor® EAV	0.51 m ² (5.5 ft ²)	1.06 m ² (11.4 ft ²)	2.12 m ² (22.8 ft ²)	3.18 m ² (34.2 ft ²)
NF	Ultipor® NF	0.39 m ² (4.3 ft ²)	0.79 m ² (8.5 ft ²)	1.58 m ² (17.0 ft ²)	2.37 m ² (25.5 ft ²)
NFZ	Posidyne® NFZ	0.39 m ² (4.3 ft ²)	0.79 m ² (8.5 ft ²)	1.58 m ² (17.0 ft ²)	2.37 m ² (25.5 ft ²)
DFL	Fluorodyne® II DFL	0.27 m ² (2.9 ft ²)	0.55 m ² (5.9 ft ²)	1.10 m ² (11.8 ft ²)	1.65 m ² (17.8 ft ²)
EKV	Supor® EKV	0.26 m ² (2.8 ft ²)	0.60 m ² (6.5 ft ²)	1.20 m ² (12.9 ft ²)	1.80 m ² (19.4 ft ²)
UEDF	Fluorodyne® EX EDF	0.53 m ² (5.6 ft ²)	1.10 m ² (11.8 ft ²)	2.20 m ² (23.7 ft ²)	3.30 m ² (35.5 ft ²)
UECV	Supor® EX ECV	0.52 m ² (5.6 ft ²)	1.04 m ² (11.2 ft ²)	2.08 m ² (22.4 ft ²)	3.12 m ² (33.6 ft ²)
UASF	Supor® Prime	0.61 m ² (6.6 ft ²)	1.34 m ² (14.4 ft ²)	2.68 m ² (28.8 ft ²)	4.02 m ² (43.3 ft ²)
DJL	Fluorodyne® II DBL	0.27 m ² (2.9 ft ²)	0.55 m ² (5.9 ft ²)	1.10 m ² (11.8 ft ²)	1.65 m ² (17.8 ft ²)
UEDT	Fluorodyne® EX EDT	0.46 m ² (5.0 ft ²)	9.50 m ² (10.2 ft ²)	1.90 m ² (20.5 ft ²)	2.85 m ² (30.7 ft ²)

Other options

Code	Adapter Options
2	Double O-ring bayonet lock, no fin (Code 05 only)
7	Double 226 O-ring with bayonet lock and finned cap

*H4: Seal Option, Silicone elastomer (Other materials available on request)

Particulate Filtration

Pre-Filter Media



Product line and key feature

HDC™ II	Profile® II	PreFlow™
• 0.6 ~ 700 µm , Pleated Polypropylene 멤브레인 • 광범위한 불순물 제거 등급을 제공하여 낮은 차압 및 높은 유속 제공 • Chemical API, 유전자 치료제 및 백신 중간체, 중요도가 낮은 Gas 등에 적합	• 0.5 ~ 10 µm, Melt blown Polypropylene 멤브레인 • 다양한 크기 및 불순물 함량이 높은 시료에 응용 • 유전자 치료제 및 백신 중간체 사용에 적합	• 0.2/0.45 µm, Resin-bonded glass fiber • 제균 필터 보호를 위한 사전필터로 비용 효율성 제공 • 유전자 치료제 및 백신, 혈청 생산 등에 적합

Technical Information - AB Style Cartridge

해당 기술 정보는 10 in. 카트리지 제품에 한하며 다른 타입에 관한 정보는 Cytiva 에 문의 주시기 바랍니다.

	HDC™ II	Profile® II	PreFlow™
Materials of Construction			
Membrane	Polypropylene	Polypropylene	Resin-bonded glass fiber
Support and drainage layers	Polypropylene	Polypropylene	Polyester (nonwoven)
Core, cage, end caps	Polypropylene	Polypropylene	Polypropylene
Code7 Adapters	Polypropylene with encapsulated stainless steel reinforcing ring	Polypropylene with encapsulated stainless steel reinforcing ring	Polypropylene with encapsulated stainless steel reinforcing ring
O-rings	Silicone	Silicone	Silicone
Retention ratings			
Removal Ratings	70 µm, 40 µm, 20 µm, 10 µm, 6 µm, 4.5 µm, 2.5 µm, 1.2 µm, 0.6 µm ^{(1), (2)}	<0.5 µm, 0.5 µm, 0.7 µm, 1 µm, 2 µm, 3 µm, 5 µm, 7 µm, 10 µm, 15 µm, 20 µm, 30 µm, 40 µm ⁽³⁾	Grade UUA : 0.2 µm (nominal) Grade UB : 0.45 µm (nominal)

(1) > 99.98% by modified OSU-F2 test. 0.6 to 20 µm in water, 40 and 70 µm in oil

(2) Extrapolated value

(3) The removal rating is the value in microns at which the modified OSU-F2 test gives a Beta value of ≥ 5000

	HDC™ II	Profile® II	PreFlow™
Operating Parameters			
Maximum Differential Pressure and Temperature	5.5 bard (80 psid) at 50 °C 4.1 bard (60 psid) at 80 °C	4.0 bard (58 psid) at 30 °C 3.4 bard (49 psid) at 50 °C 2.0 bard (29 psid) at 70 °C 1.0 bard (15 psid) at 82 °C	5.0 bard (72 psid) at 25 °C

Sterilization

Max. Steaming Conditions	Temperature	Cumulative Steaming Time	Pressure and Temperature	Cumulative Steaming Time	Temperature	Cumulative Steaming Time
Autoclave	140 °C	50 h (1 h cycles)	0.3 bard (4.4 psid) at 125 °C	10 h (1 h cycles)	Grade UUA : 140 °C Grade UB : 125 °C	3 h (1 h cycles)

Format guide

공정 개발 단계			공정 개발 및 임상 단계				
포맷							
제품명	47 mm disc	Mini Profile® Capsules	PreFlow™ Capsules	Kleenpak™ Capsules	Junior and Sealkleen filter Cartridges	Kleenpak™ Nova Capsules	Membrane Filter Cartridges
유효여과면적	17 cm ² (*Holder 사용시 9.6 or 11.1 cm ²)	46/90 cm ²	900 cm ²	0.03 to 0.22 m ²	0.06 to 0.25 m ²	0.05 to 1.76 m ²	5/10/20/30 in. (0.38 to 2.64 m ²)
적용 가능 재질	HDC™ II, PreFlow™	Profile® II, Star	PreFlow™	HDC™ II	HDC™ II	HDC™ II, Profile® II	HDC™ II, Profile® II, PreFlow™

Ordering information

	Filter Module Type		Filter Size & Area
	Filter Media		Other options

Mini Profile® capsules (Profile® II, Profile® star)

Part Number :

BY			P	6*
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Example Part Number:

BYY010P6

Mini Profile® capsule / Profile® II, 46 cm² Area /
1.0 µm removal rating / ½ in hose barb connections

Filter Media & Area		
Code	Filter Type	Nominal Filter Area
Y	Profile® II	46 cm ²
A	Profile® star	90 cm ²

*6 : Connection Option, ½ in hose barb connections

Filter size	
Code	Removal Rating
005 ⁽¹⁾	0.5 µm
010 ⁽¹⁾	1.0 µm
015 ⁽²⁾	1.5 µm
030 ⁽²⁾	3.0 µm
050 ⁽²⁾	5.0 µm

(1) Profile® II design only

(2) Profile® Star design only

DFA PreFlow™ capsules (PreFlow™)

Part Number :

DFA	3001		C*
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Example Part Number:

DFA3001UUAC

DFA PreFlow™ capsule / PreFlow™ UUA, 0.2 µm removal rating,
900 cm² / 9.5 mm (¾ in.) hose barb connections

Filter Media & Area		
Code	Filter Type	Nominal Filter Area
UUA	PreFlow™ UUA, 0.2 µm	900 cm ² (1.0 ft ²)
UB	PreFlow™ UB, 0.45 µm	900 cm ² (1.0 ft ²)

*C: Connection Option, 9.5 mm (¾ in.) hose barb connections

Kleenpak™ capsules (HDC™ II Only)

Part Number :



Example Part Number:

KA1J060P1 (For Gas application)

Kleenpak™ capsule / 4.6 in. / HDC™ II, 6.0 µm removal rating,
0.03 m² / 38 mm (1½ in.) sanitary flange inlet and 6 – 13 mm
(¼-½ in.) outlet

KA3J100P6 (For Liquid application)

Kleenpak™ capsule / 8.2 in. / HDC™ II, 10.0 µm removal rating,
0.13 m² / 38 mm (1½ in.) sanitary flange 14 mm (9/16 in.)
hose barb

Filter Size

	Code	Nominal Length
For Gas Application	1	117 mm (4.6 in.)
	2	158 mm (6.2 in.)
For Liquid Application	3	210 mm (8.2 in.)

Filter Media & Area

Nominal Filter Area					
	Code	Removal Ratings	KA1	KA2	KA3
For Gas Application	J012	1.2 µm	0.06 m ² (0.6 ft ²)	0.1 m ² (1.0 ft ²)	N/A
	J025	2.5 µm	0.06 m ² (0.6 ft ²)	0.1 m ² (1.0 ft ²)	
	J045	4.5 µm	0.06 m ² (0.6 ft ²)	0.11 m ² (1.2 ft ²)	
	J060	6.0 µm	0.03 m ² (0.3 ft ²)	0.05 m ² (0.5 ft ²)	
	J100	10.0 µm	0.03 m ² (0.3 ft ²)	0.07 m ² (0.7 ft ²)	
For Liquid Application	J012	1.2 µm	N/A	N/A	0.20 m ² (2.0 ft ²)
	J045	4.5 µm			0.22 m ² (2.4 ft ²)
	J100	10.0 µm			0.13 m ² (1.4 ft ²)

Other options

	Code	Connection Option
For Gas Application	1	38 mm (1½ in.) sanitary flange inlet and 6 – 13 mm (¼-½ in.) outlet connections
For Liquid Application	6	38 mm (1½ in.) sanitary flange 14 mm (in.) hose barb

Junior and Sealkleen filter cartridges (HDC™ II Only)

Part Number :



Example Part Number:

SLK7001J400PH4

Sealkleen cartridges / 2.5 in. / HDC™ II, 40.0 µm removal rating,
0.06 m² / Silicone elastomer

Filter Module Type	Filter Size
Code	Size Code Nominal Length
MCY	4463 133 mm (5.2 in.)
SLK	7001 66 mm (2.5 in.)
	7002 133 mm (5.2 in.)

Filter Media & Area			
Code	Removal Ratings	Nominal Filter Area	
		SLK7001	SLK7002, MCY4463
J012	1.2 µm	0.12 m ² (1.3 ft ²)	0.25 m ² (2.7 ft ²)
J025	2.5 µm	0.14 m ² (1.6 ft ²)	0.25 m ² (2.7 ft ²)
J045	4.5 µm	0.14 m ² (1.6 ft ²)	0.25 m ² (2.7 ft ²)
J060	6.0 µm	0.07 m ² (0.8 ft ²)	0.15 m ² (1.7 ft ²)
J100	10.0 µm	0.09 m ² (1.0 ft ²)	0.19 m ² (2.1 ft ²)
J200	20.0 µm	0.09 m ² (1.0 ft ²)	0.19 m ² (2.1 ft ²)
J400	40.0 µm	0.06 m ² (0.7 ft ²)	0.25 m ² (2.7 ft ²)

Other options	
Code	Seal Option
Omit	Not applicable for SLK series
H4	Silicone elastomer

Kleenpak™ Nova capsules (HDC™ II, Profile® II)

Part Number :



Example Part Number:

NP7Y050P6G

Kleenpak™ Nova capsule / In-line / 20 in. / Profile® II, 5.0 µm removal rating, 0.10 m² /

38 mm (1½ in.) sanitary flange inlet and 13 mm (½ in.) hose barb /

Non-irradiated, Suitable for gamma Irradiation, Suitable for Autoclave

Other options

Code	Capsule Format
P	In-line
T	T-Style

Filter Size

Code	Nominal Length
5L	127 mm (5 in.) ⁽¹⁾
6	254 mm (10 in.)
7	508 mm (20 in.)
8	762 mm (30 in.)

Filter Media & Area

		Nominal Filter Area			
Code	Filter Type	NP(T)5L	NP(T)6	NP(T)7	NP(T)8
J012	HDC™ II 1.2 µm	0.35 m ² (3.8 ft ²)	0.70 m ² (7.5 ft ²)	1.40 m ² (15.8 ft ²)	2.10 m ² (22.6 ft ²)
J025	HDC™ II 2.5 µm	0.44 m ² (4.7 ft ²)	0.88 m ² (9.5 ft ²)	1.76 m ² (19.0 ft ²)	2.64 m ² (28.4 ft ²)
J045	HDC™ II 4.5 µm	0.44 m ² (4.7 ft ²)	0.88 m ² (9.5 ft ²)	1.76 m ² (19.0 ft ²)	2.64 m ² (28.4 ft ²)
J060	HDC™ II 6.0 µm	0.21 m ² (2.3 ft ²)	0.42 m ² (4.5 ft ²)	0.84 m ² (9.0 ft ²)	1.26 m ² (13.6 ft ²)
J100	HDC™ II 10.0 µm	0.28 m ² (3.0 ft ²)	0.55 m ² (5.9 ft ²)	1.10 m ² (11.8 ft ²)	1.65 m ² (17.8 ft ²)
J200	HDC™ II 20.0 µm	0.28 m ² (3.0 ft ²)	0.55 m ² (5.9 ft ²)	1.10 m ² (11.8 ft ²)	1.65 m ² (17.8 ft ²)
J400	HDC™ II 40.0 µm	0.19 m ² (2.0 ft ²)	0.38 m ² (4.1 ft ²)	0.76 m ² (8.2 ft ²)	1.14 m ² (12.3 ft ²)
Y005	Profile® II 0.5 µm	N/A	0.05 m ² (0.5 ft ²)	0.10 m ² (1.1 ft ²)	0.15 m ² (1.6 ft ²)
Y010	Profile® II 1.0 µm				
Y050	Profile® II 5.0 µm				
Y100	Profile® II 10.0 µm				

*G: Additional Options, Non-irradiated Suitable for gamma Irradiation, Suitable for Autoclave

(1) HDC™ II design only

Other options

Code	Connection Options
1	25 - 38 mm (1-1½ in.) sanitary flange connections
6	38 mm (1½ in.) sanitary flange inlet and 13 mm (½ in.) hose barb outlet connections

AB Style Cartridge Filters (HDC™ II, Profile® II, PreFlow™)

Part Number :



Example Part Number:

AB3UUA7PH4

AB style cartridge filter / 30 in. / PreFlow™ UUA, 0.2 µm removal rating, 1.71 m² / Double 226 O-ring with bayonet lock and finned cap / Silicone O-ring

Filter Size

Code	Nominal Length
1	254mm (10 in.)
2	508 mm (20 in.)
3	762 mm (30 in.)

Filter Media & Area

Code	Filter Type	Nominal Filter Area		
		AB1	AB2	AB3
J006	HDC™ II 0.6 µm	0.63 m² (6.8 ft²)	1.26 m² (13.6 ft²)	1.89 m² (20.4 ft²)
J012	HDC™ II 1.2 µm	0.70 m² (7.5 ft²)	1.40 m² (15.8 ft²)	2.10 m² (22.6 ft²)
J025	HDC™ II 2.5 µm	0.88 m² (9.5 ft²)	1.76 m² (19.0 ft²)	2.64 m² (28.4 ft²)
J045	HDC™ II 4.5 µm	0.88 m² (9.5 ft²)	1.76 m² (19.0 ft²)	2.64 m² (28.4 ft²)
J060	HDC™ II 6.0 µm	0.42 m² (4.5 ft²)	0.84 m² (9.0 ft²)	1.26 m² (13.6 ft²)
J100	HDC™ II 10.0 µm	0.55 m² (5.9 ft²)	1.10 m² (11.8 ft²)	1.65 m² (17.8 ft²)
J200	HDC™ II 20.0 µm	0.55 m² (5.9 ft²)	1.10 m² (11.8 ft²)	1.65 m² (17.8 ft²)
J400	HDC™ II 40.0 µm	0.38 m² (4.1 ft²)	0.76 m² (8.2 ft²)	1.14 m² (12.3 ft²)
J700	HDC™ II 70.0 µm	0.38 m² (4.1 ft²)	0.76 m² (8.2 ft²)	1.14 m² (12.3 ft²)
Y005	Profile® II 0.5 µm	0.05 m² (0.5 ft²)	0.10 m² (1.1 ft²)	0.15 m² (1.6 ft²)

*7: Adaptor Option, Double 226 O-ring with bayonet lock and finned cap

*H4: Seal Option, Silicone elastomer

Filter Media & Area

Code	Filter Type	Nominal Filter Area		
		AB1	AB2	AB3
Y010	Profile® II 1.0 µm	0.05 m ² (0.5 ft ²)	0.10 m ² (1.1 ft ²)	0.15 m ² (1.6 ft ²)
Y020	Profile® II 2.0 µm	0.05 m ² (0.5 ft ²)	0.10 m ² (1.1 ft ²)	0.15 m ² (1.6 ft ²)
Y050	Profile® II 5.0 µm	0.05 m ² (0.5 ft ²)	0.10 m ² (1.1 ft ²)	0.15 m ² (1.6 ft ²)
Y100	Profile® II 10.0 µm	0.05 m ² (0.5 ft ²)	0.10 m ² (1.1 ft ²)	0.15 m ² (1.6 ft ²)
UUA	PreFlow™ UUA, 0.2 µm	0.57 m ² (6.1 ft ²)	1.14 m ² (12.3 ft ²)	1.71 m ² (18.4 ft ²)
UB	PreFlow™ UB, 0.45 µm	0.65 m ² (7.0 ft ²)	1.30 m ² (14.0 ft ²)	1.95 m ² (20.1 ft ²)



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