HPLC/UHPLC Column Phase Selection Chart

Specifically designed for successful and reproducible method development and transfer

Ordering Info

KINETEX® Core-Shell Technology

Use for highest performance compared to fully porous media

Phase	Particle Type	Pore Size (Å)	Carbon Load %	pH Range	USP Classification	Selectivity Features	Available Particle Size(s)
EVO C18	Core-Shell Organo-Silica (U.S. Patent Nos. 7,563,367 and 8,658,038)	100	11*	1.0-12.0	L1	Robust reversed phase methods even in alkaline conditions with improved peak shape for polar basic compounds and 100% aqueous stability.	5 µm
C18	Core-Shell Silica	100	12*	1.5-8.5‡	L1	All purpose phase that offers the hydrophobic retention and methylene selectivity chromatographers expect from a C18 column.	1.3 µm, 1.7 µm, 2.6 µm, 5 µm
Biphenyl	Core-Shell Silica	100	11*	1.5-8.5‡	L11	100% aqueous stable and allows for excellent reversed phase retention and enhanced polar and aromatic selectivity.	1.7 µm, 2.6 µm, 5 µm
XB-C18 (C18 with protective iso-butyl side chains)	Core-Shell Silica	100	10*	1.5-8.5‡	L1	Unique C18 phase that yields increased hydrogen bonding with hydrophobic selectivity, resulting in improved peak shape for basic compounds and increased retention of acidic compounds.	1.7 µm, 2.6 µm, 5 µm
F5 (pentafluorophenyl propyl)	Core-Shell Silica	100	9*	1.5-8.5‡	L43	Highly reproducible pentafluorophenyl propyl phase that offers a unique combination of polar, hydrophobic, aromatic, and shape selectivity.	1.7 µm, 2.6 µm
C8	Core-Shell Silica	100	8*	1.5-8.5‡	L7	USP L7 phase that provides less hydrophobic and methylene selectivity than a C18.	1.7 µm, 2.6 µm, 5 µm
Phenyl-Hexyl	Core-Shell Silica	100	11*	1.5-8.5‡	L11	Reversed phase chemistry that allows for greater retention and separation of aromatic hydrocarbons.	1.7 µm, 2.6 µm, 5 µm
HILIC (Unbonded silica)	Core-Shell Silica	100	0	2.0-7.5	L3	Unbonded silica phase for HILIC conditions to provide selectivity for polar compounds.	1.7 µm, 2.6 µm, 5 µm

*Effective Carbon Load. ‡ pH range is 1.5-10 under isocratic conditions. pH range is 1.5-8.5 under gradient conditions.

AERIS™

Ultra-high performance for the analysis of proteins and peptides

Phase	Particle Type	Pore Size (Å)	Carbon Load %	pH Range	USP Classification	Selectivity Features	Available Particle Size(s)
WIDEPORE XB-C18	Core-Shell Silica	–	–	1.5 - 9	L1	Recommended for polypeptides, large peptides, proteins, hydrophilic proteins, PEGylated proteins, Antibody-Drug Conjugates, high temperature separations, alternate selectivity for peptide mapping.	3.6 µm
WIDEPORE XB-C8	Core-Shell Silica	–	–	1.5 - 9	L7	Recommended for large proteins, moderately hydrophobic proteins, monoclonal antibodies, glycosylated proteins, Antibody-Drug Conjugates, high temperature separations.	3.6 µm
WIDEPORE C4	Core-Shell Silica	–	–	1.5 - 9	L26	Recommended for very large proteins, very hydrophobic proteins, membrane proteins, least retentive phase of Aeris WIDEPORE.	3.6 µm
PEPTIDE XB-C18	Core-Shell Silica	100	10*	1.5 - 9	L1	Recommended for low molecular weight peptides (synthetic or natural) and peptide mapping.	1.7 µm, 2.6 µm, 3.6 µm, 5 µm

* Effective Carbon Load.

Gemini®

Rugged reversed phase column can be used reliably from pH 1-12

Phase	Particle Type	Pore Size (Å)	Carbon Load %	pH Range	USP Classification	Selectivity Features	Available Particle Size(s)
C18	Fully Porous Organo-Silica (U.S. Patent Nos. 7,563,367 and 8,658,038)	110	14	1.0 - 12	L1	This is a high loading, organo-silane particle column with pH stability 1-12. The patented procedure creates a surface that is a strong hydrogen donor and accepter. It is ideal for a combination of polar and non-polar retention.	3 µm, 5 µm, 10 µm
NX-C18	Fully Porous Organo-Silica (U.S. Patent Nos. 7,563,367 and 8,658,038)	110	14	1.0 - 12	L1	New generation of organo-silane material incorporates ethylene bridges to provide pH stability from 1-12 and 5x the durability of earlier hybrids. The homogenous surface offers some steric selectivity.	3 µm, 5 µm, 10 µm
C6-Phenyl	Fully Porous Organo-Silica (U.S. Patent Nos. 7,563,367 and 8,658,038)	110	12	1.0 - 12	L11	This is a very inert phase for great peak shapes of ionized compounds. The planar phenyl rings offer moderate hydrophobic retention and high steric selectivity for structural isomer selectivity.	3 µm, 5 µm

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One of the world's leading HPLC columns for virtually every application

Phase	Particle Type	Pore Size (Å)	Carbon Load %	pH Range	USP Classification	Selectivity Features	Available Particle Size(s)
C18(2)	Fully Porous Silica	100	17.5	1.5-9.0‡	L1	Excellent general purpose reversed phase selectivity with high hydrophobic and methylene retention. Non-polar endcapping virtually eliminates silanol interactions.	2.5 µm, 3 µm, 5 µm, 10 µm
C8(2)	Fully Porous Silica	100	13.5	1.5-9.0‡	L7	General C8 phase that provides less hydrophobic retention than a C18, but the density of the ligand bonding creates more steric based selectivity.	3 µm, 5 µm, 10 µm
CN	Fully Porous Silica	100	7	1.5-7.0	L10	Can be used as reversed or normal phase material. Nitrile groups bound to the silica surface offer a unique polar selectivity under reversed phase or normal phase conditions.	3 µm, 5 µm, 10 µm
HILIC (cross-linked diol)	Fully Porous Silica	200	5.7	1.5-8.0	L20	HILIC phase that provides excellent selectivity and retention for polar compounds as well as improved MS sensitivity with low bleed.	3 µm, 5 µm
NH_2	Fully Porous Silica	100	9.5	1.5 - 11	L8	Amino phase. Can be used in reversed or normal phase modes. Stable from pH 1.5 to 11.0 and under 100% aqueous conditions. High performance silica and bonding techniques produces a rugged, highly reproducible column.	3 µm, 5 µm, 10 µm
PFP(2)	Fully Porous Silica	100	11.5	1.5-9.0‡	L43	A pentafluorophenyl phase that provides excellent selectivity for aromatic compounds from influence of fluorine substitution on phenyl ring. Multiple retention mechanisms. Orthogonal selectivity to traditional C18 phases.	3 µm, 5 µm
Phenyl-Hexyl	Fully Porous Silica	100	17.5	1.5-9.0‡	L11	A phenyl phase which employs a hexyl alkyl linker; leading to a balanced degree of hydrophobic and aromatic selectivity. Our most hydrophobic phenyl column and it will also provide good hydrogen accepting functionality for acidic retention.	3 µm, 5 µm, 10 µm
SCX	Fully Porous Silica	100	0.55% Sulfur Load	2.0 - 7.0	L9	A benzene sulfonic acid bonded phase is used to make this strong cation exchange (SCX) column. Offers great peak shape and resolution.	5 µm, 10 µm
Silica(2)	Fully Porous Silica	100	0	2.0 - 7.5	L3	Ultra-pure silica with high column bed stability enhanced by particle shape uniformity.	3 µm, 5 µm, 10 µm

‡ pH range is 1.5-10 under isocratic conditions. pH range is 1.5-9.0 under gradient conditions.

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These four columns together will solve nearly any method development problem

Phase	Particle Type	Pore Size (Å)	Carbon Load %	pH Range	USP Classification	Selectivity Features	Available Particle Size(s)
Fusion-RP (polar embedded C18)	Fully Porous Silica	80**	12	1.5-9.0‡	L1	For a balanced retention of polar, basic compounds and moderate retention for hydrophobics over a broad pH range. See improvements in the analysis of polar, basic compounds with little or no MS phase bleed. (100% Aqueous Stable).	2.5 µm, 4 µm, 10 µm
Hydro-RP (C18 with polar endcapping)	Fully Porous Silica	80**	19	1.5-7.5	L1	For extreme retention of non-polar and extremely polar alkyl compounds. Resolution of highly polar compounds under 100% buffer mobile phase conditions. (100% Aqueous Stable).	2.5 µm, 4 µm, 10 µm
Max-RP (C12)	Fully Porous Silica	80**	17	1.5-9.0‡	—	For hydrophobic, non-polar compounds over a wide pH range, with little or no MS phase bleed. See sharper peak shape for basic compounds at neutral pH.	2.5 µm, 4 µm, 10 µm
Polar-RP (ether linked phenyl with polar endcapping)	Fully Porous Silica	80*	11	1.5-7.0	L11	For extreme retention of polar and aromatic compounds. Additional improved peak shape for acidic and basic analytes and aromatic selectivity with methanol containing mobile phases. (100% Aqueous Stable).	2.5 µm, 4 µm, 10 µm

‡ pH range is 1.5-10 under isocratic conditions. pH range is 1.5-9.0 under gradient conditions.**Pore size of 100 Å for 2.5 µm particles.

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Ordering Information

KINETEX® Core-Shell Technology

1.3 µm Minibore Columns (mm)		
Phases	**30 x 2.1**	**50 x 2.1**
C18	00A-4515-AN	00B-4515-AN

1.7 µm Minibore Columns (mm)					SecurityGuard ULTRA Cartridges‡
Phases	**30 x 2.1**	**50 x 2.1**	**100 x 2.1**	**150 x 2.1**	**3/pk**
F5	—	00B-4722-AN	00D-4722-AN	00F-4722-AN	AJ0-9322
Biphenyl	—	00B-4628-AN	00D-4628-AN	00F-4628-AN	AJ0-9209
XB-C18	00A-4498-AN	00B-4498-AN	00D-4498-AN	00F-4498-AN	AJ0-8782
C18	00A-4475-AN	00B-4475-AN	00D-4475-AN	00F-4475-AN	AJ0-8782
C8	00A-4499-AN	00B-4499-AN	00D-4499-AN	00F-4499-AN	AJ0-8784
HILIC	00A-4474-AN	00B-4474-AN	00D-4474-AN	—	AJ0-8786
Phenyl-Hexyl	—	00B-4500-AN	00D-4500-AN	00F-4500-AN	AJ0-8788

for 2.1 mm ID

1.7 µm MidBore™ Columns (mm)				SecurityGuard ULTRA Cartridges‡
Phases	**30 x 3.0**	**50 x 3.0**	**100 x 3.0**	**3/pk**
XB-C18	00A-4498-Y0	00B-4498-Y0	00D-4498-Y0	AJ0-8775
C18	—	00B-4475-Y0	00D-4475-Y0	AJ0-8775
C8	00A-4499-Y0	00B-4499-Y0	00D-4499-Y0	AJ0-8777
HILIC	—	00B-4474-Y0	—	AJ0-8779

for 3.0 mm ID

2.6 µm Minibore Columns (mm)						SecurityGuard ULTRA Cartridges‡
Phases	**30 x 2.1**	**50 x 2.1**	**75 x 2.1**	**100 x 2.1**	**150 x 2.1**	**3/pk**
F5	—	00B-4723-AN	—	00D-4723-AN	00F-4723-AN	AJ0-9322
Biphenyl	00A-4622-AN	00B-4622-AN	—	00D-4622-AN	00F-4622-AN	AJ0-9209
XB-C18	00A-4496-AN	00B-4496-AN	00C-4496-AN	00D-4496-AN	00F-4496-AN	AJ0-8782
C18	00A-4462-AN	00B-4462-AN	00C-4462-AN	00D-4462-AN	00F-4462-AN	AJ0-8782
C8	00A-4497-AN	00B-4497-AN	00C-4497-AN	00D-4497-AN	00F-4497-AN	AJ0-8784
HILIC	00A-4461-AN	00B-4461-AN	00C-4461-AN	00D-4461-AN	00F-4461-AN	AJ0-8786
Phenyl-Hexyl	00A-4495-AN	00B-4495-AN	00C-4495-AN	00D-4495-AN	00F-4495-AN	AJ0-8788

for 2.1 mm ID

2.6 µm MidBore Columns (mm)						SecurityGuard ULTRA Cartridges‡
Phases	**30 x 3.0**	**50 x 3.0**	**75 x 3.0**	**100 x 3.0**	**150 x 3.0**	**3/pk**
F5	—	00B-4723-Y0	—	00D-4723-Y0	00F-4723-Y0	AJ0-9321
Biphenyl	—	00B-4622-Y0	—	00D-4622-Y0	00F-4622-Y0	AJ0-9208
XB-C18	00A-4496-Y0	00B-4496-Y0	00C-4496-Y0	00D-4496-Y0	00F-4496-Y0	AJ0-8775
C18	00A-4462-Y0	00B-4462-Y0	00C-4462-Y0	00D-4462-Y0	00F-4462-Y0	AJ0-8775
C8	00A-4497-Y0	00B-4497-Y0	00C-4497-Y0	00D-4497-Y0	00F-4497-Y0	AJ0-8777
HILIC	00A-4461-Y0	—	—	—	00F-4461-Y0	AJ0-8779
Phenyl-Hexyl	—	00B-4495-Y0	—	00D-4495-Y0	00F-4495-Y0	AJ0-8781

for 3.0 mm ID

‡SecurityGuard ULTRA cartridges require holder, Part No.: AJ0-9000

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Aeris PEPTIDE 1.7 µm Minibore Columns (mm)				SecurityGuard ULTRA Cartridges‡
Phases	**50 x 2.1**	**100 x 2.1**	**150 x 2.1**	**3/pk**
XB-C18	00B-4506-AN	00D-4506-AN	00F-4506-AN	AJ0-8948

for 2.1 mm ID

Aeris PEPTIDE 2.6 µm Minibore Columns (mm)					SecurityGuard ULTRA Cartridges‡
Phases	**50 x 2.1**	**100 x 2.1**	**150 x 2.1**	**250 x 2.1**	**3/pk**
XB-C18	00B-4505-AN	00D-4505-AN	00F-4505-AN	00G-4505-AN	AJ0-8948

for 2.1 mm ID

Aeris PEPTIDE 2.6 µm MidBore™ and Analytical Columns (mm)				SecurityGuard ULTRA Cartridges‡
Phases	**150 x 3.0**	**150 x 4.6**	**250 x 4.6**	**3/pk**
XB-C18	00F-4505-Y0	00F-4505-E0	00G-4505-E0	AJ0-8946

for 4.6 mm ID

Aeris PEPTIDE 3.6 µm Minibore Columns (mm)					SecurityGuard ULTRA Cartridges‡
Phases	**50 x 2.1**	**100 x 2.1**	**150 x 2.1**	**250 x 2.1**	**3/pk**
XB-C18	00B-4507-AN	00D-4507-AN	00F-4507-AN	00G-4507-AN	AJ0-8948

for 2.1 mm ID

Aeris PEPTIDE 3.6 µm Analytical Columns (mm)					SecurityGuard ULTRA Cartridges‡
Phases	**50 x 4.6**	**100 x 4.6**	**150 x 4.6**	**250 x 4.6**	**3/pk**
XB-C18	00B-4507-E0	00D-4507-E0	00F-4507-E0	00G-4507-E0	AJ0-8946

for 4.6 mm ID

Aeris PEPTIDE 5 µm Analytical Columns (mm)			SecurityGuard ULTRA Cartridges‡
Phases	**150 x 4.6**	**250 x 4.6**	**3/pk**
XB-C18	00F-4632-E0	00G-4632-E0	AJ0-8946

for 4.6 mm ID

Aeris WIDEPORE 3.6 µm Minibore Columns (mm)					SecurityGuard ULTRA Cartridges‡
Phases	**50 x 2.1**	**100 x 2.1**	**150 x 2.1**	**250 x 2.1**	**3/pk**
XB-C18	00B-4482-AN	00D-4482-AN	00F-4482-AN	00G-4482-AN	AJ0-8783
XB-C8	00B-4481-AN	00D-4481-AN	00F-4481-AN	00G-4481-AN	AJ0-8785
C4	00B-4486-AN	00D-4486-AN	00F-4486-AN	00G-4486-AN	AJ0-8899

for 2.1 mm ID

Aeris WIDEPORE 3.6 µm Analytical Columns (mm)				SecurityGuard ULTRA Cartridges‡
Phases	**100 x 4.6**	**150 x 4.6**	**250 x 4.6**	**3/pk**
XB-C18	00D-4482-E0	00F-4482-E0	00G-4482-E0	AJ0-8769
XB-C8	00D-4481-E0	00F-4481-E0	00G-4481-E0	AJ0-8771
C4	00D-4486-E0	00F-4486-E0	00G-4486-E0	AJ0-8901

for 4.6 mm ID

‡SecurityGuard ULTRA cartridges require holder, Part No.: AJ0-9000

2.6 µm Analytical Columns (mm)						SecurityGuard ULTRA Cartridges‡
Phases	**30 x 4.6**	**50 x 4.6**	**75 x 4.6**	**100 x 4.6**	**150 x 4.6**	**3/pk**
F5	—	00B-4723-E0	—	00D-4723-E0	00F-4723-E0	AJ0-9320
Biphenyl	—	00B-4622-E0	—	00D-4622-E0	00F-4622-E0	AJ0-9207
XB-C18	—	00B-4496-E0	00C-4496-E0	00D-4496-E0	00F-4496-E0	AJ0-8768
C18	00A-4462-E0	00B-4462-E0	00C-4462-E0	00D-4462-E0	00F-4462-E0	AJ0-8768
C8	—	00B-4497-E0	00C-4497-E0	00D-4497-E0	00F-4497-E0	AJ0-8770
HILIC	—	00B-4461-E0	00C-4461-E0	00D-4461-E0	00F-4461-E0	AJ0-8772
Phenyl-Hexyl	—	00B-4495-E0	00C-4495-E0	00D-4495-E0	00F-4495-E0	AJ0-8774

for 4.6 mm ID

5 µm Minibore Columns (mm)					SecurityGuard ULTRA Cartridges‡
Phases	**30 x 2.1**	**50 x 2.1**	**100 x 2.1**	**150 x 2.1**	**3/pk**
EVO C18	00A-4633-AN	00B-4633-AN	00D-4633-AN	00F-4633-AN	AJ0-9298
Biphenyl	00A-4627-AN	00B-4627-AN	00D-4627-AN	—	AJ0-9209
XB-C18	00A-4605-AN	00B-4605-AN	00B-4605-AN	—	AJ0-8782
C18	00A-4601-AN	00B-4601-AN	00D-4601-AN	00F-4601-AN	AJ0-8782
C8	—	00B-4608-AN	00D-4608-AN	—	AJ0-8784
Phenyl-Hexyl	—	00B-4603-AN	00D-4603-AN	—	AJ0-8788

for 2.1 mm ID

5 µm MidBore Columns (mm)				SecurityGuard ULTRA Cartridges‡
Phases	**50 x 3.0**	**100 x 3.0**	**150 x 3.0**	**3/pk**
EVO C18	00B-4633-Y0	00D-4633-Y0	00F-4633-Y0	AJ0-9297
Biphenyl	00B-4627-Y0	00D-4627-Y0	00F-4627-Y0	AJ0-9208
XB-C18	00B-4605-Y0	00D-4605-Y0	00F-4605-Y0	AJ0-8775
C18	00B-4601-Y0	00D-4601-Y0	00F-4601-Y0	AJ0-8775
C8	00B-4608-Y0	00D-4608-Y0	—	AJ0-8777
Phenyl-Hexyl	00B-4603-Y0	00D-4603-Y0	—	AJ0-8781

for 3.0 mm ID

5 µm Analytical Columns (mm)					SecurityGuard ULTRA Cartridges‡
Phases	**50 x 4.6**	**100 x 4.6**	**150 x 4.6**	**250 x 4.6**	**3/pk**
EVO C18	00B-4633-E0	00D-4633-E0	00F-4633-E0	00G-4633-E0	AJ0-9296
Biphenyl	00B-4627-E0	00D-4627-E0	00F-4627-E0	00G-4627-E0	AJ0-9207
XB-C18	00B-4605-E0	00D-4605-E0	00F-4605-E0	00G-4605-E0	AJ0-8768
C18	00B-4601-E0	00D-4601-E0	00F-4601-E0	00G-4601-E0	AJ0-8768
C8	00B-4608-E0	00D-4608-E0	00F-4608-E0	00G-4608-E0	AJ0-8770
Phenyl-Hexyl	00B-4603-E0	00D-4603-E0	00F-4603-E0	00G-4603-E0	AJ0-8774

for 4.6 mm ID

‡SecurityGuard ULTRA cartridges require holder, Part No.: AJ0-9000

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2.5 µm High Speed Technology (HST) Columns (mm)						
Phases	**30 x 2.0**	**50 x 2.0**	**100 x 2.0**	**50 x 3.0**	**100 x 3.0**	**50 x 4.6**
Max-RP	00A-4372-B0	00B-4372-B0	00D-4372-B0	00B-4372-Y0	00D-4372-Y0	00B-4372-E0
Hydro-RP	00A-4387-B0	00B-4387-B0	00D-4387-B0	00B-4387-Y0	00D-4387-Y0	00B-4387-E0
Polar-RP	00A-4371-B0	00B-4371-B0	00D-4371-B0	00B-4371-Y0	00D-4371-Y0	00B-4371-E0
Fusion-RP	00A-4423-B0	00B-4423-B0	00D-4423-B0	00B-4423-Y0	00D-4423-Y0	00B-4423-E0

4 µm Microbore and Minibore Columns (mm)					SecurityGuard Cartridges (mm)
Phases	**50 x 1.0**	**150 x 1.0**	**30 x 2.0**	**50 x 2.0**	**4 x 2.0 /10 pk**
Max-RP	00B-4337-A0	00F-4337-A0	00A-4337-B0	00B-4337-B0	AJ0-6073
Hydro-RP	00B-4375-A0	00F-4375-A0	00A-4375-B0	00B-4375-B0	AJ0-7510
Polar-RP	00B-4336-A0	00F-4336-A0	00A-4336-B0	00B-4336-B0	AJ0-6075
Fusion-RP	00B-4424-A0	00F-4424-A0	00A-4424-B0	00B-4424-B0	AJ0-7556

for ID: 2.0-3.0 mm

4 µm Minibore Columns (mm) (cont'd)				SecurityGuard Cartridges (mm)
Phases	**75 x 2.0**	**150 x 2.0**	**250 x 2.0**	**4 x 2.0 /10 pk**
Max-RP	00C-4337-B0	00F-4337-B0	00G-4337-B0	AJ0-6073
Hydro-RP	00C-4375-B0	00F-4375-B0	00G-4375-B0	AJ0-7510
Polar-RP	00C-4336-B0	00F-4336-B0	00G-4336-B0	AJ0-6075
Fusion-RP	00C-4424-B0	00F-4424-B0	00G-4424-B0	AJ0-7556

for ID: 2.0-3.0 mm

4 µm MidBore™ Columns (mm)					SecurityGuard Cartridges (mm)
Phases	**30 x 3.0**	**50 x 3.0**	**150 x 3.0**	**250 x 3.0**	**4 x 2.0 /10 pk**
Max-RP	—	00B-4337-Y0	00F-4337-Y0	00G-4337-Y0	AJ0-6073
Hydro-RP	00A-4375-Y0	00B-4375-Y0	00F-4375-Y0	00G-4375-Y0	AJ0-7510
Polar-RP	00A-4336-Y0	00B-4336-Y0	00F-4336-Y0	00G-4336-Y0	AJ0-6075
Fusion-RP	—	00B-4424-Y0	00F-4424-Y0	00G-4424-Y0	AJ0-7556

for ID: 2.0-3.0 mm

4 µm Analytical Columns (mm)						SecurityGuard Cartridges (mm)
Phases	**30 x 4.6**	**50 x 4.6**	**75 x 4.6**	**150 x 4.6**	**250 x 4.6**	**4 x 3.0 /10 pk**
Max-RP	00A-4337-E0	00B-4337-E0	00C-4337-E0	00F-4337-E0	00G-4337-E0	AJ0-6074
Hydro-RP	00A-4375-E0	00B-4375-E0	00C-4375-E0	00F-4375-E0	00G-4375-E0	AJ0-7511
Polar-RP	00A-4336-E0	00B-4336-E0	00C-4336-E0	00F-4336-E0	00G-4336-E0	AJ0-6076
Fusion-RP	—	00B-4424-E0	00C-4424-E0	00F-4424-E0	00G-4424-E0	AJ0-7557

for ID: 3.2-8.0 mm

‡SecurityGuard Analytical Cartridges require holder, Part No.: KJ0-4282

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2.5 µm High Speed Technology (HST) Columns (mm)					
Phases	**30 x 2.0**	**50 x 2.0**	**100 x 2.0**	**50 x 3.0**	**100 x 3.0**
C18(2)-HST	00A-4446-B0	00B-4446-B0	00D-4446-B0	00B-4446-Y0	00D-4446-Y0

3 µm Microbore and Minibore Columns (mm)							SecurityGuard™ Cartridges (mm)
Phases	**50 x 1.0**	**150 x 1.0**	**30 x 2.0**	**50 x 2.0**	**100 x 2.0**	**150 x 2.0**	**4 x 2.0 /10pk**
Silica(2)	—	—	00A-4162-B0	00B-4162-B0	00D-4162-B0	00F-4162-B0	AJ0-4347
C8(2)	00B-4248-A0	00F-4248-A0	00A-4248-B0	00B-4248-B0	00D-4248-B0	00F-4248-B0	AJ0-4289
C18(2)	00B-4251-A0	00F-4251-A0	00A-4251-B0	00B-4251-B0	00D-4251-B0	00F-4251-B0	AJ0-4286
CN	—	—	00A-4254-B0	00B-4254-B0	00D-4254-B0	00F-4254-B0	AJ0-4304
Phenyl-Hexyl	00B-4256-A0	—	00A-4256-B0	00B-4256-B0	00D-4256-B0	00F-4256-B0	AJ0-4350
NH_2	—	00F-4377-A0	00A-4377-B0	00B-4377-B0	00D-4377-B0	00F-4377-B0	AJ0-4301
HILIC	—	—	—	00B-4449-B0	00D-4449-B0	00F-4449-B0	AJ0-8328
PFP(2)	—	—	00A-4447-B0	00B-4447-B0	00D-4447-B0	00F-4447-B0	AJ0-8326

for ID: 2.0-3.0 mm

3 µm MidBore™ and Analytical Columns (mm)								SecurityGuard Cartridges (mm)	
Phases	**30 x 3.0**	**50 x 3.0**	**150 x 3.0**	**30 x 4.6**	**50 x 4.6**	**75 x 4.6**	**100 x 4.6**	**150 x 4.6**	**4 x 2.0 /10pk**	**4 x 3.0 /10pk**
Silica(2)	—	—	00F-4162-Y0	—	00B-4162-E0	—	00D-4162-E0	00F-4162-E0	AJ0-4347	AJ0-4348
C8(2)	00A-4248-Y0	00B-4248-Y0	00F-4248-Y0	00A-4248-E0	00B-4248-E0	00C-4248-E0	00D-4248-E0	00F-4248-E0	AJ0-4289	AJ0-4290
C18(2)	00A-4251-Y0	00B-4251-Y0	00F-4251-Y0	00A-4251-E0	00B-4251-E0	00C-4251-E0	00D-4251-E0	00F-4251-E0	AJ0-4286	AJ0-4287
CN	—	00B-4254-Y0	00F-4254-Y0	00A-4254-E0	00B-4254-E0	00C-4254-E0	00D-4254-E0	00F-4254-E0	AJ0-4304	AJ0-4305
Phenyl-Hexyl	—	00B-4256-Y0	00F-4256-Y0	00A-4256-E0	00B-4256-E0	00C-4256-E0	00D-4256-E0	00F-4256-E0	AJ0-4350	AJ0-4351
NH_2	—	00B-4377-Y0	00F-4377-Y0	—	00B-4377-E0	—	00D-4377-E0	00F-4377-E0	AJ0-4301	AJ0-4302
HILIC	—	00B-4449-Y0	00F-4449-Y0	—	—	—	00D-4449-E0	00F-4449-E0	AJ0-8328	AJ0-8329
PFP(2)	—	00B-4447-Y0	00F-4447-Y0	—	00B-4447-E0	—	00D-4447-E0	00F-4447-E0	AJ0-8326	AJ0-8327

for ID: 2.0-3.0 mm 3.2-8.0 mm

5 µm Microbore and Minibore Columns (mm)								SecurityGuard Cartridges (mm)
Phases	**50 x 1.0**	**150 x 1.0**	**250 x 1.0**	**30 x 2.0**	**50 x 2.0**	**150 x 2.0**	**250 x 2.0**	**4 x 2.0 /10pk**
Silica(2)	—	—	—	—	00B-4274-B0	00F-4274-B0	00G-4274-B0	AJ0-4347
C8(2)	—	00F-4249-A0	—	00A-4249-B0	00B-4249-B0	00F-4249-B0	00G-4249-B0	AJ0-4289
C18(2)	00B-4252-A0	00F-4252-A0	00G-4252-A0	00A-4252-B0	00B-4252-B0	00F-4252-B0	00G-4252-B0	AJ0-4286
CN	—	—	—	—	00B-4255-B0	00F-4255-B0	—	AJ0-4304
Phenyl-Hexyl	00B-4257-A0	—	—	00A-4257-B0	00B-4257-B0	00F-4257-B0	00G-4257-B0	AJ0-4350
NH_2	—	00F-4378-A0	—	00A-4378-B0	00B-4378-B0	00F-4378-B0	00G-4378-B0	AJ0-4301
PFP(2)	—	—	—	00A-4448-B0	00B-4448-B0	00F-4448-B0	—	AJ0-8326

for ID: 2.0-3.0 mm

5 µm MidBore and Analytical Columns (mm)								SecurityGuard Cartridges (mm)	
Phases	**30 x 3.0**	**50 x 3.0**	**150 x 3.0**	**250 x 3.0**	**30 x 4.6**	**50 x 4.6**	**75 x 4.6**	**4 x 2.0 /10pk**	**4 x 3.0 /10pk**
Silica(2)	—	—	—	—	—	00B-4274-E0	—	AJ0-4347	AJ0-4348
C8(2)	—	00B-4249-Y0	00F-4249-Y0	00G-4249-Y0	00A-4249-E0	00B-4249-E0	00C-4249-E0	AJ0-4289	AJ0-4290
C18(2)	00A-4252-Y0	00B-4252-Y0	00F-4252-Y0	00G-4252-Y0	00A-4252-E0	00B-4252-E0	00C-4252-E0	AJ0-4286	AJ0-4287
CN	—	00B-4255-Y0	00F-4255-Y0	00G-4255-Y0	00A-4255-E0	00B-4255-E0	00C-4255-E0	AJ0-4304	AJ0-4305
Phenyl-Hexyl	—	00B-4257-Y0	00F-4257-Y0	00G-4257-Y0	00A-4257-E0	00B-4257-E0	00C-4257-E0	AJ0-4350	AJ0-4351
NH_2	—	00B-4378-Y0	00F-4378-Y0	00G-4378-Y0	00A-4378-E0	00B-4378-E0	00C-4378-E0	AJ0-4301	AJ0-4302
SCX	—	—	—	—	—	00B-4398-E0	—	AJ0-4307	AJ0-4308
HILIC	—	—	00F-4450-Y0	—	—	—	—	AJ0-8328	AJ0-8329
PFP(2)	—	00B-4448-Y0	00F-4448-Y0	—	—	00B-4448-E0	—	AJ0-8326	AJ0-8327

for ID: 2.0-3.0 mm 3.2-8.0 mm

5 µm Analytical Columns (mm)				SecurityGuard Cartridges (mm)
Phases	**100 x 4.6**	**150 x 4.6**	**250 x 4.6**	**4 x 3.0 /10pk**
Silica(2)	00D-4274-E0	00F-4274-E0	00G-4274-E0	AJ0-4348
C8(2)	00D-4249-E0	00F-4249-E0	00G-4249-E0	AJ0-4290
C18(2)	00D-4252-E0	00F-4252-E0	00G-4252-E0	AJ0-4287
CN	00D-4255-E0	00F-4255-E0	00G-4255-E0	AJ0-4305
Phenyl-Hexyl	00D-4257-E0	00F-4257-E0	00G-4257-E0	AJ0-4351
NH_2	00D-4378-E0	00F-4378-E0	00G-4378-E0	AJ0-4302
SCX	00D-4398-E0	00F-4398-E0	00G-4398-E0	AJ0-4308
HILIC	00D-4450-E0	00F-4450-E0	00G-4450-E0	AJ0-8329
PFP(2)	00D-4448-E0	00F-4448-E0	00G-4448-E0	AJ0-8327

for ID: 3.2-8.0 mm

‡SecurityGuard Analytical Cartridges require holder, Part No.: KJ0-4282

Gemini®

3 µm Microbore, Minibore and MidBore™ Columns (mm)										SecurityGuard Cartridges (mm)
Phases	**50 x 1.0**	**20 x 2.0**	**30 x 2.0**	**50 x 2.0**	**100 x 2.0**	**150 x 2.0**	**50 x 3.0**	**100 x 3.0**	**150 x 3.0**	**4 x 2.0 /10 pk**
C18	00B-4439-A0	00M-4439-B0	00A-4439-B0	00B-4439-B0	00D-4439-B0	00F-4439-B0	00B-4439-Y0	00D-4439-Y0	00F-4439-Y0	AJ0-7596
C6-Phenyl	00B-4443-A0	—	00A-4443-B0	00B-4443-B0	00D-4443-B0	00F-4443-B0	00B-4443-Y0	00D-4443-Y0	00F-4443-Y0	AJ0-7914
NX-C18	00B-4453-A0	00M-4453-B0	00A-4453-B0	00B-4453-B0	00D-4453-B0	00F-4453-B0	00B-4453-Y0	00D-4453-Y0	00F-4453-Y0	AJ0-8367

for ID: 2.0-3.0 mm

3 µm Analytical Columns (mm)							SecurityGuard Cartridges (mm)
Phases	**20 x 4.0**	**30 x 4.6**	**50 x 4.6**	**100 x 4.6**	**150 x 4.6**	**250 x 4.6**	**4 x 3.0 /10 pk**
C18	00M-4439-D0	00A-4439-E0	00B-4439-E0	00D-4439-E0	00F-4439-E0	00G-4439-E0	AJ0-7597
C6-Phenyl	—	00A-4443-E0	00B-4443-E0	00D-4443-E0	00F-4443-E0	00G-4443-E0	AJ0-7915
NX-C18	—	—	00B-4453-E0	00D-4453-E0	00F-4453-E0	00G-4453-E0	AJ0-8368

for ID: 3.2-8.0 mm

5 µm Minibore and MidBore Columns (mm)									SecurityGuard Cartridges (mm)
Phases	**30 x 2.0**	**50 x 2.0**	**150 x 2.0**	**250 x 2.0**	**50 x 3.0**	**100 x 3.0**	**150 x 3.0**	**250 x 3.0**	**4 x 2.0 /10 pk**
C18	00A-4435-B0	00B-4435-B0	00F-4435-B0	00G-4435-B0	00B-4435-Y0	00D-4435-Y0	00F-4435-Y0	00G-4435-Y0	AJ0-7596
C6-Phenyl	00A-4444-B0	00B-4444-B0	00F-4444-B0	—	00B-4444-Y0	—	00F-4444-Y0	00G-4444-Y0	AJ0-7914
NX-C18	00A-4454-B0	00B-4454-B0	00F-4454-B0	—	00B-4454-Y0	00D-4454-Y0	00F-4454-Y0	00G-4454-Y0	AJ0-8367

for ID: 2.0-3.0 mm

5 µm Analytical Columns (mm)						SecurityGuard Cartridges (mm)
Phases	**30 x 4.6**	**50 x 4.6**	**100 x 4.6**	**150 x 4.6**	**250 x 4.6**	**4 x 3.0 /10 pk**
C18	00A-4435-E0	00B-4435-E0	00D-4435-E0	00F-4435-E0	00G-4435-E0	AJ0-7597
C6-Phenyl	—	00B-4444-E0	00D-4444-E0	00F-4444-E0	00G-4444-E0	AJ0-7915
NX-C18	—	00B-4454-E0	00D-4454-E0	00F-4454-E0	00G-4454-E0	AJ0-8368

for ID: 3.2-8.0 mm

‡SecurityGuard Analytical Cartridges require holder, Part No.: KJ0-4282

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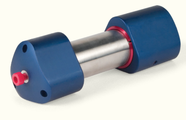

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