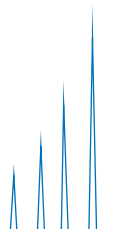




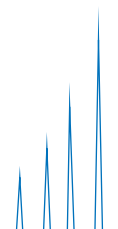
Overview on YMC Column Hardware and Phases



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Overview on YMC Column Hardware and Phases



UHPLC Column Hardware (-xxxxPT)

Properties:

Lengths:	20, 30, 50, 75, 100, 150 mm
ID:	2.0, 2.1, 3.0, (4.6) mm
Max. pressure:	1,000 bar (YMC-Triart 1.9 µm), 600 bar (Meteoric Core)
Port depth:	2.0 mm (0.08")



Fig. 1: YMC-Triart UHPLC column



Fig. 2: Meteoric Core UHPLC/HPLC column

UHPLC Guard Cartridges (-xxxxCC)

Guard Holder needed: XPCHUHP



Fig. 3: UHPLC guard column holder



Fig. 4: UHPLC guard cartridge

Properties:

Lengths:	5 mm
ID:	2.1, 3.0 mm
Max. Pressure:	1,000 bar
Port depth:	adjustable

Applicable Phase-Hardware Combinations

Family	Modification	Particle Size	PT	WT (UltraHT)	CC (Guard)
YMC-Triart	C18	1.9 µm	X		X
	C18 ExRS	1.9 µm	X		X
	Bio C18	1.9 µm	X		X
	C8	1.9 µm	X		X
	Bio C4	1.9 µm	X		X
	Phenyl	1.9 µm	X		X
	PFP	1.9 µm	X		X
	Diol-HILIC	1.9 µm	X		X
YMC-Pack Pro	C18	2 µm		X	X
	Hydrosphere C18	2 µm		X	X
Meteoric Core	C18	2.7 µm	X		
	C18 BIO	2.7 µm	X		
	C8	2.7 µm	X		

Overview on YMC Column Hardware and Phases



Higher Pressure HPLC Column Hardware (-xxxxPTH)

Properties:

Lengths:	20, 33, 50, 75, 100, 150, 250 mm
ID:	2.1, 3.0, 4.6 mm
Max. Pressure:	450 bar
Port depth:	2.0 mm (0.08")



Fig. 5: YMC-Triart high-pressure HPLC column

HPLC Column Hardware (-xxxxWT)

Properties:

Lengths:	30, 50, 75, 100, 150, 250 mm
ID:	1.0, 2.0, 2.1, 3.0, 4.0, 4.6 mm
Max. Pressure:	300 bar (3 µm, 150/250 mm length; CHIRAL ART) 250 bar (250 mm length) 200 bar (≤150 mm length) 100 bar (10-30 mm ID) 500 bar (2 µm, UltraHT)
Port depth:	3.3 mm (0.13")



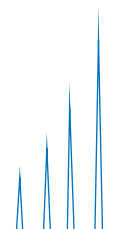
Fig. 6: YMC HPLC column - Waters type Port depth



Fig. 7: YMC-Triart HPLC column



Fig. 8: YMC-UltraHT HPLC column



HPLC Cartridge Type Hardware (-xxxxQT)

Properties:

Lengths:	30, 33, 50, 100, 125, 150, 250 mm
ID:	2.1, 3.0, 4.0, (4.6) mm
Max. Pressure:	250 bar (250 mm length) 200 bar (≤ 150 mm length)
Port depth:	2.3 mm (0.09")



Fig. 9: HPLC cartridge type column (2.1 mm ID)



Fig. 10: HPLC cartridge type column (3/4 mm ID)

HPLC Cartridge Hardware (-xxxxQC)

Properties:

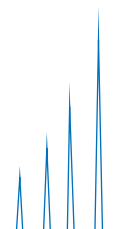
Lengths:	30, 33, 50, 100, 125, 150, 250 mm
ID:	2.1, 3.0, 4.0, (4.6) mm
Max. Pressure:	250 bar (250 mm length) 200 bar (≤ 150 mm length)
Port depth:	2.3 mm (0.09")



Fig. 11: HPLC cartridge (2.1 mm ID)



Fig. 12: HPLC cartridge (3/4 mm ID)



Overview on YMC Column Hardware and Phases



Analytical Guard Cartridges (-xxxxGC)

Guard Holder needed:

External/universal holder, for use with
PTH, WT, QT hardware.

For 10 mm length XPGCH-Q1

For 20 mm length XPGCH-Q2

Internal holder, for use with
QT hardware only.

For 10 mm length XPGCS-Q1

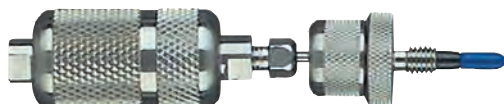


Fig. 13: universal HPLC guard cartridge holder



Fig. 14: internal HPLC guard cartridge holder

Properties:

Lengths: 10, 20 mm
ID: 2.1-4.0 mm
Max. Pressure: 550 bar
Port depth: adjustable

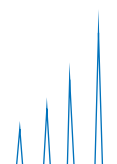


Fig. 15: HPLC guard cartridge

Applicable Phase-Hardware Combinations

Family	Modification	Particle Size	PTH	WT	QT	QC	GC
YMC-Triart	C18	3, 5 µm	X	X			X
	C18 ExRS	3, 5 µm	X				X
	Bio C18	3, 5 µm	X				X
	C8	3, 5 µm	X	X			X
	Bio C4	3, 5 µm	X				X
	Phenyl	3, 5 µm	X	X			X
	PFP	3, 5 µm	X	X			X
	Diol-HILIC	3, 5 µm	X	X			X
YMC-Pack Pro	C18	3, 5 µm		X	X	X	X
	Hydrosphere C18	3, 5 µm		X	X	X	X
	C18 RS	3, 5 µm		X	X	X	X
	C8	3, 5 µm		X	X	X	X
	C4	3, 5 µm		X	X	X	X
YMC-Pack	Diol SEC	3, 5 µm		X	X	X	X
	Diol SEC UHPLC	2 µm	X				
YMC-SEC MAB	Diol SEC	3 µm		X			X
BioPro	HIC BF	4 µm		X			X
	HIC HT	2.3 µm		X			X

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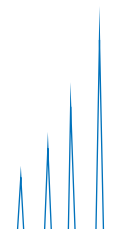


Overview on YMC Column Hardware and Phases



Applicable Phase-Hardware Combinations (Continued from previous page.)

Family	Modification	Particle Size	WT	QT	QC	GC
YMC-Pack	ODS-A	3, 5 µm	X	X	X	X
	ODS-AQ	3, 5 µm	X	X	X	X
	ODS-AL	3, 5 µm	X	X	X	X
	ODS-AM	3, 5 µm	X	X	X	X
	Polymer C18	6 µm	X	X	X	X
	C ₈ (Octyl)	3, 5 µm	X	X	X	X
	C ₄ (Butyl)	3, 5 µm	X	X	X	X
	Ph (Phenyl)	3, 5 µm	X	X	X	X
	Protein-RP	5 µm	X	X	X	X
	TMS (C1)	3, 5 µm	X	X	X	X
	CN (Cyano)	3, 5 µm	X	X	X	X
	PVA-SIL	5 µm	X	X	X	X
	Polyamine II	5 µm	X	X	X	X
	NH ₂ (Amino)	3, 5 µm	X	X	X	X
	Diol-NP	3, 5 µm	X	X	X	X
	SIL (Silica)	3, 5 µm	X	X	X	X
Specialities	YMC Carotenoid	3, 5 µm	X	X	X	X
	YMC-PAH	3, 5 µm	X	X	X	X
	J'Sphere ODS	4 µm	X	X	X	X
	YMCbasic	3, 5 µm	X	X	X	X
CHIRAL ART	Amylose-C (Neo)	3, 5 µm	X		X	X
	Cellulose-C	3, 5 µm	X		X	X
	Amylose-SA	3, 5 µm	X		X	X
	Cellulose-SB	3, 5 µm	X		X	X
	Cellulose-SC	3, 5 µm	X		X	X
	Cellulose-SJ	3, 5 µm	X		X	X
YMC CHIRAL ART	NEA (R)(S)	5 µm	X		X	X
	CD BR	5 µm	X		X	X



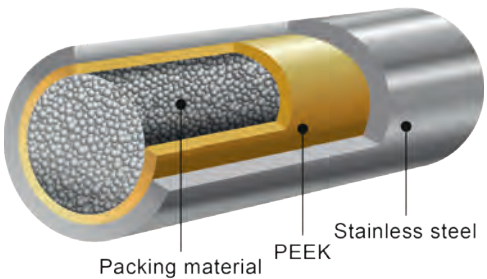
Metal-free PEEK-lined Hardware (-xxxxPTP)

Properties:

Lengths: 50, 100, 150 mm
ID: 2.1, 4.6 mm
Max. Pressure: 450 bar (3/5 µm)
1000 bar (1.9 µm)
Port depth: 2.0 mm (0.08")

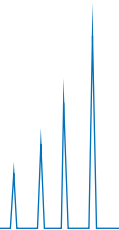


Fig. 16: YMC-Triart metal-free column



Applicable to following products only

Family	Modification	Particle Size
YMC-Triart	C18	1.9, 3, 5 µm
	C18 ExRS	
	Bio C18	
	C8	
	Bio C4	
	Phenyl	
	PFP	
	Diol-HILIC	



Overview on YMC Column Hardware and Phases



Biocompatible PEEK Hardware (-xxxxWP)

Properties:

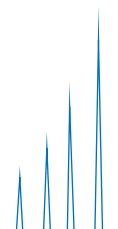
Lengths:	30, 50, 100, (150) mm
ID:	4.6 mm
Max. Pressure:	30 bar (porous 5 µm) 60-120 bar (non-porous 5 µm) 250 bar (non-porous 3 µm)
Port depth:	3.3 mm (0.13")



Fig. 17: BioPro column – Waters type Port depth

Applicable to following products only

Family	Modification	Particle Size
BioPro IEX	SP	5 µm
	SF	3, 5 µm
	QA	5 µm
	QF	3, 5 µm



Capillary Column Hardware (-xxxxAU/-xxxxRU)

Properties:

Lengths:	50, 75, 100, 150, (250) mm
ID:	75, 100, 300, 500 μm
Max. Pressure:	550 bar for 2, 3, 5 μm 600 bar for 1.9 μm
Fitting:	1/16" (AU) 1/32" (RU)
Thread:	10-32 (1/16") 6-40 (1/32")
Port depth:	1/16"; 2.0 mm (0.08") 1/32"; 1.1 mm (0.045")



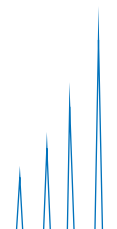
Fig. 18: YMC capillary columns



Fig. 19: YMC capillary guard columns

Applicable to following products:

All YMC RP (except Meteoric Core), NP, HILIC phases.



(Semi-)Preparative Hardware:

YMC-Actus Semi Prep. Hardware (20/30 mm ID) (-xxxxWX)

Properties:

Lengths:	50, 75, 100, 150, 250 mm
ID:	20, 30 mm
Max. Pressure:	300 bar
Port depth:	3.3 mm (0.13"), 1/16"



Fig. 20: YMC-Actus semi prep. column – Waters type Port depth

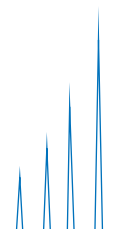
YMC-Actus Prep. Hardware (50 mm ID) (-xxxxDX / -xxxxAX)

Properties:

Lengths:	100, 150, 250 mm
ID:	50 mm
Max. Pressure:	200 bar
Connection:	female Swagelok nut connection (DX, 1/8")
Port depth:	3.3 mm (0.13", AX, 1/16")
Fitting:	1/8" (DX) 1/16" (AX)



Fig. 21: YMC-Actus 50 mm, 1/8" prep. column – Waters type Port depth



Semi Prep. Hardware (10/20/30 mm ID) (-xxxxWT)

Properties:

Lengths:	100, 150, 250, 300 mm
ID:	10, 20, 30 mm
Max. Pressure:	100 bar
Port depth:	3.3 mm (0.13"), 1/16"

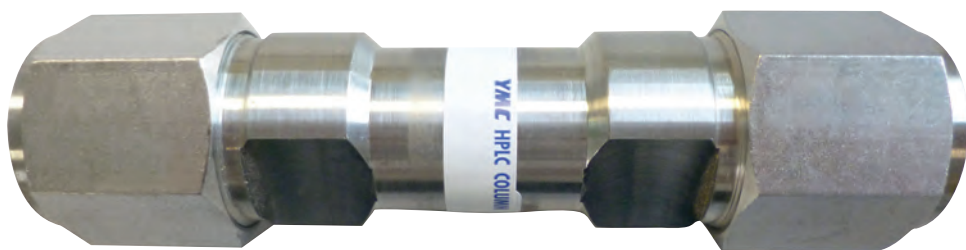


Fig. 22: standard semi-prep. column – Waters type Port depth

Semi Prep. Guard Cartridges (-xxxxCC(N))

Guard Holder needed:

For use with WT, WX hardware.

For 10 mm ID	XPCHSPW1
For 20 mm ID	XPGHFSP20ID
For 30 mm ID	XPGHFSP30ID



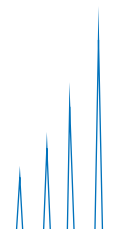
Fig. 23: semi prep. guard cartridge holder



Fig. 24: semi prep. guard cartridge

Properties:

Lengths:	10 mm
ID:	10, 20, 30 mm
Max. Pressure:	300 bar
Port depth:	3.3 mm (0.13"), 1/16"



Overview on YMC Column Hardware and Phases



Semi Prep. Guard Column Hardware (-xxxxWTG)

Properties:

Lengths: 30 mm

ID: 8, 10, 20, 30 mm

Max. Pressure: 100 bar

Port depth: 3.3 mm (0.13"), 1/16"



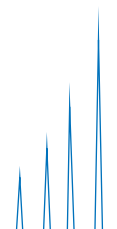
Fig. 25: semi prep. guard column – Waters type Port depth

Applicable Phase-Hardware Combinations

Family	Modification	Particle Size	WX	WT	DX/AX	CC(N)	WTG
YMC-Triart	C18	5 µm	X	X*	X	X	X
	C18 ExRS	5 µm	X	X*	X	X	X
	Bio C18	5 µm	X	X*	X	X	X
	C8	5 µm	X	X*	X	X	X
	Bio C4	5 µm	X	X*	X	X	X
	Phenyl	5 µm	X	X*	X	X	X
	PFP	5 µm	X	X*	X	X	X
	Prep C18-S	10, 15, 20 µm	X	X*	X	X	X
	Prep C8-S	10, 15, 20 µm	X	X*	X	X	X
YMC-Pack Pro	C18	5 µm	X	X*	X	X	X
	Hydrosphere C18	5 µm	X	X*	X	X	X
	C18 RS	5 µm	X	X*	X	X	X
	C8	5 µm	X	X*	X	X	X
	C4	5 µm	X	X*	X	X	X

*only for 10 mm ID available, for 20/30 mm YMC-Actus hardware available

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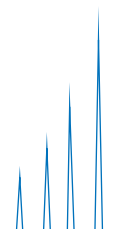


Overview on YMC Column Hardware and Phases



Applicable Phase-Hardware Combinations (Continued from previous page.)

Family	Modification	Particle Size	WX	WT	DX/AX	CC(N)	WTG
YMC-Pack	ODS-A	5 µm	X	X*	X	X	X
	ODS-AQ	5 µm	X	X*	X	X	X
	ODS-AL	5 µm	X	X	X	X	X
	ODS-AM	5 µm	X	X	X	X	X
	C ₈ (Octyl)	5 µm		X		X	X
	C ₄ (Butyl)	5 µm		X		X	X
	Ph (Phenyl)	5 µm		X		X	X
	Protein-RP	5 µm		X		X	X
	TMS (C1)	5 µm		X		X	X
	CN (Cyano)	5 µm		X		X	X
	PVA-SIL	5 µm		X		X	X
	Polyamine II	5 µm		X		X	X
	NH ₂ (Amino)	5 µm		X		X	X
	Diol	5 µm		X		X	X
	Diol-NP	5 µm		X		X	X
	SIL (Silica)	5 µm		X		X	X
Specialties	YMCbasic	5 µm	X	X	X	X	X
	YMC Omega	10 µm	X	X*		X	X
CHIRAL ART	Amylose-C (Neo)	5 µm	X	X*	X	X	X
	Cellulose-C	5 µm	X	X*	X	X	X
	Amylose-SA	5 µm	X	X*	X	X	X
	Cellulose-SB	5 µm	X	X*	X	X	X
	Cellulose-SC	5 µm	X	X*	X	X	X
	Cellulose-SJ	5 µm	X	X*	X	X	X
YMC-CHIRAL	NEA (R)(S)	5 µm		X		X	X
	CD BR	5 µm		X		X	X



SFC Hardware

Alycon SFC-Hardware (-xxxx WTS)

Properties:

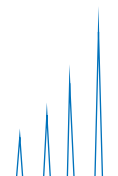
Length:	50, 100 mm for 3 µm 150, 250 mm for 3, 5 µm
ID:	2.1, 3.0 mm for 3 µm 2.1, 4.6 mm for 3, 5 µm 10 mm for 5 µm
Max. Pressure:	300 bar (2.1/4.6 mm ID) 200 bar (10 mm ID)
Port depth:	3.3 mm (0.13")



Fig. 26: Alycon SFC columns –
Waters type Port depth

Applicable to following products only

Family	Modification	Particle Size
Alycon SFC	C18	5 µm
	PFP	5 µm
	Diol-HILIC	5 µm
	CN	5 µm
	SIL	5 µm
Alycon SFC CSP	Amylose-C (Neo)	3, 5 µm
	Cellulose-C	3, 5 µm
	Amylose-SA	3, 5 µm
	Cellulose-SB	3, 5 µm
	Cellulose-SC	3, 5 µm
	Cellulose-SJ	3, 5 µm





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