

MODcol® Spring® Columns for LC

101mm i.d. Spring® Column

Manufacturer:

Grace GmbH & Co. KG
In der Hollerhecke 1
67547 Worms
Germany



Technical Data

MATERIALS	
All Wetted Surfaces	Stainless Steel 316L, PTFE
Column Body	Stainless Steel 316L (honed, Ra < 0.6µm)
Piston	Stainless Steel 316L (electropolished, Ra < 0.3µm)
Piston Top	Aluminium 6061 (hard anodized)
Packing Spacers	Aluminium 6061 (hard anodized)
Locking Ring	Aluminium 6061 (hard anodized)
DAC Washer Guide Tube	Aluminium 6061 (hard anodized)
DAC Conical Washers	Stainless Steel (various types available)
Capillaries, Fittings, Adapters	Stainless Steel 316L (fittings & adapters: Valco® type)
Top & Bottom Restraints	Aluminium 7075-T6 (hard anodized)
Frits	Stainless Steel 316L (sintered, passivated)
Seals & Heat Shrink Tubing	PTFE

OPERATING PARAMETERS	101 x 400mm Hardware	101 x 700mm Hardware
Void Volume	3200ml	5600ml
Max. packed bed volume	1600ml	2800ml
Max. packed bed length	200mm	350mm
Max. operating pressure	138bar / 2000psig	
Max. operating temperature	Packing: 15°C - 30°C, LC-Operation: 4°C - 60°C	

PED 97/23/EC	
Applied Conformity Assessment Procedure	Modul G (EC Product Verification)
Applied Standards and Technical Specifications	AD 2000, DIN EN 287-1
Operating Fluids	Fluid Group 1 + 2
Category	II

This column hardware for liquid chromatography use is manufactured in accordance with the requirements of the Pressure Equipment Directive (97/23/EC), including its requirements concerning CE certification.

F.D.A. Approved Materials

We hereby confirm that all the PTFE seals and shrink tubings supplied with the MODcol® Spring® Column hardware conform to F.D.A. Regulation 21 CFR 177.1550.

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