

## separchrom<sup>PC08</sup>

### HPLC COLUMNS FOR PREP CHROMATOGRAPHY

#### Columns for Medium Pressure without bed compression

**Separchrom PC08** columns are designed for high pressure, high performance preparative liquid chromatography. They are equipped by pistons on both ends. All metal parts in connection with mobile phase are made of AISI 316L stainless steel. Upper piston movement is secured by hydraulics, but in comparison with standard models, PC08 hydraulics is incorporated into bottom column stand, own column is fixed in a robust frame and hydraulic piston press the whole column unit against a special flange in most upper part of the system.



**PC08** columns are used for high performance separations in instances where small rigid particles are used as column filling. Only stainless steel and UHMWPE (ultra high molecular weight polyethylene) are in contact with mobile phase. Columns are resisting to all common solvents. PC08 columns with are designed for industrial separations and typically are working with flow rate 400 ml/min. – 1400 ml/min. depending on sorbent type and separation mode. Maximal column pressure is 120 bar.

**PC08** columns are designed either for sedimentation packing with following axial compression of sorbent bed or for dynamic axial compression packing. Columns with I.D. 150 mm or 200 mm have a special stand with motor driven high pressure hydraulic aggregate and hydraulic cylinder (40 tons, 200 - 600 mm stroke, double action) which serves for sorbent pressing during the use to compensate bed volume changes as well.

**PC08** column stand has hydraulic system in bottom part and column is fixed between hydraulic cylinder piston and upper stand flange which is connected to the stand box by five rods. Column itself can be removed from the frame without deassembling of the frame

Typically the **PC08** column has the same design as PC 01 columns - consists of tube, I.D. 150 mm or 200 mm with the length 400 - 700 mm. The internal surface of the column is mechanically polished to attain high smoothness. The tube is provided with two screwed stainless steel flanges (tube flanges). Column pistons are equipped with Poremet® 2 frits (3 um porosity) and flow distributors.

Type of column	I.D. mm	Length mm	Pressure bar	Note
SEPARCHROM PC08 -150/500	150	500	150	
SEPARCHROM PC08 -150/700	150	700	150	
SEPARCHROM PC08 -200/500	200	500	120	
SEPARCHROM PC08 -200/700	200	700	120	