

Hydraulic Column Packer

HIGH PERFORMANCE PREPARATIVE COLUMN

BASIC PRINCIPLE

The construction of the Silli@Column allows stand-alone operation without the permanent action of a hydraulic jack on the piston (known as DAC principle).

The packing procedure ensures that the final minimum length of the packed bed in the column is quickly reached and further reduction of the packed bed is not to be expected. The piston is firmly fixed in position by the action of the piston stop. When required, the column may be taken from the hydraulic stand and operated separately. Additional columns may then be packed on the hydraulic stand, using a quick connector (optional).

PACKING PRINCIPLE

The fully suspended and degassed slurry is poured via a funnel into the packing reservoir which is tightly connected to the Silli@Column mounted on the packing stand. Vacuum is applied until the first signs of dryness are seen on the surface of the settled, packed bed.

The slurry reservoir is removed and the top flange is installed on the top of the column.

The packing procedure is completed by compression of the packed bed to around 35 bar hydraulic pressure with the hydraulic pump.

Finally, pump solvent at high flow rate, screw in the piston stop and test the column. If required, additional compression of the packed bed may be applied to improve peak symmetry.

ADVANTAGES

- This instrument enables preparative columns to be packed easily on site.
- Compressible packing materials, such as polymeric gels, can also be packed.
- The packed columns may be operated independently of the hydraulic unit.
- All columns are equipped with thermostatted jacket.

MAXIMUM PRESSURE :	160 bar (for 25 & 50mm)
	100 bar (for 100mm)



STANDARD SIZES

- ID = 25mm - Length = 125mm
- ID = 25mm - Length = 250mm
- ID = 50mm - Length = 125mm
- ID = 50mm - Length = 250mm
- ID = 100mm - Length = 400mm
- Other sizes on special order.

