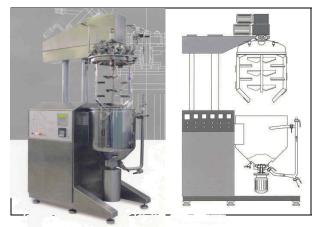
Product application – Industry

Mixer under vacuum



The equipment is used to mix and homogenize liquid substances in manufacturing creams and other compounds in the pharmaceutical, cosmetic and food industries. Stages and mixing times depend on the manufacturers' recipes.

The machine is made up of a control board, a mixing chamber, a shaking unit, a vacuum pump and a hydraulic circuit for warming up and cooling the mixing chamber.

The shaking unit consists of two slow shakers and a fast shaker (mixer) rotating in opposite directions to homogenize and prevent stagnation of highly viscous products or with a high specific gravity.

PAV - A Medium vacuum / Press2 bar Medium Water / Press. 3 bar	stage – Vacuum v a vacuum pump (V), valve (A) creates a – 0,5 bar depression the mixing chamber to prevent air from spoiling or
Seal: PTFE PAV - B Medium steam/Press. max 5 bar Temperature max 150° C Seal: PTFE A -V P C P C C C C C C C C C C C C C	teriorating the quality of products during mixing operations. ^d stage – Filling and Mixing quid ingredients (ex. glycerine, water) are poured into the xing chamber and the shaking unit starts rotating. ^d stage – Warm up hile mixing it might be necessary to warm up substances that not melt at room temperature. The outside of the chamber is armed up both by valve (B), that controls steam up to 150°C om an external generator, and by valve (C), that controls hot ater at 90-95°C and 3 bar pressure from an external boiler. The mperature inside the chamber is controlled by a thermic probe nnected to the PLC, which operates the opening of the valves
B C C D D C C C C C C C C C C C C C C C	cording to the requested temperature. stage – Cooling hen products has been homogenized, the chamber is cooled ternally by valve (D), that controls cold water and glycol at – ° and 3 bar pressure, coming from an external chiller. stage – Ejection v valve (E) connected to an external pump (P), the chamber is pught under pressure at 2 bar so that products can be ejected to commercial containers.



TYPE BSC207SXY00 / SXS code 75883738294

S/S normally closed bi-directional PAV Body Actuator Ø63 – Clamp Connection DN 25 Flow direction over / under seat Pilot pressure min 6,5 / 3,8 bar - max 10 bar Working pressure 0-10 bar - Seal material PTFE