

Reactors / Kettles / Dissolutions tanks

general features



DUPLEX reactor with slow anchor-type agitation and bottom turbine.

REACTORS are highly versatile equipment, as they are designed to carry out the processes of dispersing, mixing, and diluting products of different viscosities in a single unit. To improve manufacturing processes and times, they can incorporate a vacuum system and a double heating and/or cooling jacket.

Depending on the product to be processed, different reactor models can be manufactured:

- » The standard model is equipped with a single shaft and a high dispersion power turbine.
- » For high viscosity products and to avoid mixing dead zones, it is also an option to incorporate a second dilution shaft (DUPLEX) with a slow central blade and a cowles disc or lateral three-blade propeller. By adding a third dilution shaft (TRIPLEX), mixing and product recirculation are enhanced.

All models have a production volume ranging from 5 to 20,000 litres, and the construction materials can range from stainless steels (AISI-304, AISI-316L, etc.) to special technical coatings (PTFE, Du-Pont®, vitrified, etc.)

Currently, we have installed dissolutions equipments that work in the manufacturing of pre-dispersion, homogenization of product batches, base manufacturing, etc., offering great results.

In all cases, automatic component addition systems can be included, installing load cells and electronic weight terminals with memories for formulations, as well as Clean In Place systems (CIP). All of this can be controlled and operated through Supervisory Control And Data Acquisition programs (SCADA) for better control, analysis, and optimization of the processes.



400 L reactor with double agitation, prepared to work with internal pressure



Plant for the production of hydro-alcoholic gels: 2,000 L reactor for manufacturing and a 2,500 L formulation adjustment tank.