

ANCHOR, GATE, AND DOUBLE HELIX HIGH VISCOSITY IMPELLERS

ANCHOR IMPELLER

- Primarily used in heat transfer applications for viscous systems when vigorous blending is not required.
- Often fitted with wall scrapers to enhance heat transfer from a jacketed vessel.



GATE IMPELLER

- A variation on the Anchor.
- Cross-arms are used to enhance mixing towards the center of the vessel. These may be straight or inclined.
- More effective than an Anchor in highly shear thinning systems where simple anchor arms may tend to "cut a hole" in the batch.



DOUBLE HELIX IMPELLER

- Used in very viscous systems.
- Blends well even when the viscosity is greater than 1,000,000 cps.
- Especially indicated when the system is highly non-Newtonian and/or viscoelastic.
- Helices provide good heat transfer in jacketed vessels.
- The double ribbon arrangement is preferred to better balance mechanical forces and to provide more circulation than does the single flight arrangement.



GUARANTEE

ProQuip, Inc. accepts full responsibility for furnishing suitable equipment which shall be fit for the purpose which it is required, and for its successful operation under the conditions for which it was specified

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