

■ Custom Made Reactor

In addition to the standard model described in this hope page, design and production for Custom Made Reactor are acceptable. The reaction experiments of pressure reactor are performed under the extremely strict conditions (high pressure, high temperature, corrosion, etc.), therefore, advance discussions about specifications must be confirmed to quote the custom made reactor. Please refer to the following Specification Sheet.

Specification Sheet

1	Experiment purpose	e.g., Hydrothermal synthesis experiment
2	Vessel capacity	500ml, 1l, 5l, or 10l
3	Vessel material	SUS316, SUS316L, Hyper glass, or Hastelloy
4	Max. working limit • Pressure • Temperature	2MPa, 5MPa, 10MPa, or 35MPa 100°C, 200°C, 300°C, or 450°C
5	Details of contents (fluid) • Liquid, Gas, Solid, Slurry, Powder • Viscosity • Specific gravity • Specific heat	e.g., Liquid & Gas 200cps, 1000cps, 5000cps, or 10000cps e.g., 20g/cm <sup>3</sup> e.g., 20cal/g.°C
6	Magnetic drive • Max. RPM • Kind of stirring blade • Size of stirring blade • Number of steps	100rpm, 200rpm, or 400rpm Anchor type, or Paddle type e.g., 60mm(W) × 60mm(H) 1 step
7	Drain valve	Ball valve, Stop valve, Flush valve, or Non-attached
8	Grade of explosion-proof type	Non-explosion-proof, or Explosion-proof (eG3, or d2G4 grade)
9	Heating method	Band heater, Micro-ring heater, Electric furnace, Water bath, Oil bath, or Steam
10	Cooling method	Internal cooling coil, Jacket cooling, or Non-cooling
11	Additional option of control box	e.g., RPM meter, Recorder, or others
12	Electric source	AC110V, AC220V, or AC380V Single phase or Three phase

	<p><b>Contact to</b>  <b>S.T.CORPORATION.</b>                  Toshinao Ishizu                  6-76-9 Hirai, Edogawa-Ku,                  Tokyo 132-0035, Japan.                  Tel 03-6657-5878 Fax 03-6657-5829                  E-mail <a href="mailto:ishizu@hb.tp1.jp">ishizu@hb.tp1.jp</a></p>
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