

JTRPG 浓/稀配液罐 Mixing Tank

推进式搅拌桨
Propeller

浓/稀配液罐（搅拌罐）严格遵循《药品生产质量管理规范》GMP总则（2010年修订）第三十一、三十二条要求，并按《压力容器》（GB150—2011）、《钢制焊接常压容器(附标准释义)》（NB/T 47003.1—2009）要求进行设计、制造及验收。

浓/稀配料罐（调配罐/搅拌罐）一般是立式混料罐，主要是通过配料罐的搅拌操作将物料混合达到工艺生产的要求。

“镇田”浓/稀配液罐（搅拌罐）采用立式圆罐体，罐体可设有夹套、盘管、保温（可加热、冷却、保温）；不锈钢的材质采用316L或304制作，内壁采用电解镜面抛光或机械抛光，外壁采用304全焊接保温结构，外表面采用镜面或亚光处理；各进出管口工艺开孔与内罐体焊接处均采用翻边工艺圆弧过渡，光滑易清洗无死角，外表美观。

JTRPG Mixing Tank is designed, manufactured and inspected in accordance with the pressure vessel standard (GB150-2011) and the steel welded atmospheric pressure vessel standard (NB/T 47003.1-2009), strictly meeting GMP certificate requirements.

The mixing tank is a vertical tank in which the agitator mixes the material to meet to the technical standard.

The mixing tank adopts vertical circular tanks, both of top and bottom are standard oval and torispherical head. Transition section in tank uses circular arc transition, without dead corner, easy to clean. Single layer, double layer (insulation for tank and bottom head) or Jacket (tank and bottom head have jacket and insulation) is equipped with mechanical stirring according to customers' requirement.



产品特点

- 容积有100L~5000L等多种规格，可根据客户实际需求进行设计、制造。
- 接口采用快装卡盘式(卡接)，罐体内胆选用304或316L，内表面镜面抛光 $Ra \leq 0.28 \mu m \sim 0.6 \mu m$ ，外表面可根据客户要求进行抛光、拉丝、喷砂等。
- 根据生产及工艺的要求，可设计有加热、冷却、低高速搅拌系统，密封承压系统，真空系统，计量系统等。
- 针对不同的搅拌物料及要求达到的搅拌效果对搅拌桨的结构可以调整设计涡轮式、桨式、锚式、框式、螺带式等等。

Feature

- Volume: 100L~5000L and multiple specification, also can design and manufacture according to customers' requirement.
- The connection adopts Tri-clamp, and the tanks' inner layer use 304 or 316L. The inner surface mirror polishing $Ra \leq 0.28 \mu m \sim 0.6 \mu m$. Outer surface can be polished, wire drawn and sand blasted according to customers' requirement.
- According to the requirements of production and processing, it can be designed with low heating, cooling, high-speed mixing system, sealing pressure system, vacuum system, measuring system and so on.
- According to different mixing materials and requirements to the mixing effect, the structure of impeller can be the turbine type, paddle, anchor type, frame type, screw conveyor and so on.

罐体可选配置

浓/稀配液罐的罐体可选配置无菌空气过滤器、温度计(数显式或表盘式)、PH计、压力表、蒸汽灭菌口、视镜、卫生级人孔、进出液孔、CIP万向旋转清洗球、液位计及液位自控系统(承重模块、无触点超声波、静压变送式器等), 或根据客户要求配置。

Tank Optional Configuration

The mixing tank can configure aseptic air filter, thermometer(Digital display or Dial type), PH meter, pressure gauge, steam sterilization hole, sight glasses, sanitary manhole, liquid in-outlet, CIP cleaning ball, liquidometer and Liquid level control system(Bearing module, non-contact ultrasonic, static pressure transmitting device) and so on, also can be configured as customers' requirement.

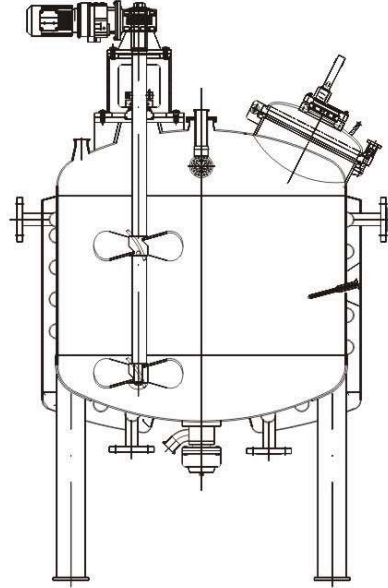
典型的应用

可作储液罐、混料罐、暂存罐、调配罐等, 用于中药、食品、果汁饮料、乳制品、佐料、酿造、啤酒、制药、化工及生物工程等行业的液体物料搅拌贮存。

Application

Can be used as Storage Tank, mixing tank, temporary Storage Tank, mixing tank, etc., Used in liquid materials' mixing and storage such as medicine, food, fruit juice beverage, dairy products, seasoning, brewing, beer, pharmaceutical, chemical and biological engineering.

常规结构 Structure



常规设计参数 Design Parameter

设计压力 Design pressure	罐体按客户要求(-0.1MPa ~ 0.6MPa) 夹套按客户要求(ATM ~ 0.5MPa)
设计温度 Design temperature	罐体、夹套按客户要求(0°C ~ 160°C)

材料 Material

内胆 Liner	304、316L
夹套 Jacket	304
保温层 Insulation	岩棉或聚氨酯 Rock wool or PU
支腿等 Legs	304

连接 Connection

进出口 In-outlet	快装卡接、法兰 Tri-clamp, Flange
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表面处理 Surface Finish

处理类型 Finish type	机械抛光、电解抛光、喷砂、酸洗 Mechanical/electrolytic polishing, sand blasting, pickling
抛光精度 Polishing precision	内壁0.4 μm, 外壁0.6 μm Inner surface Ra ≤ 0.4 μm, Outside surface Ra ≤ 0.6 μm

配液罐常规型号及主要技术参数 Normal Model And Main Technical Parameters

参数 Parameters	型号 Model	JTRPG-100	JTRPG-300	JTRPG-600	JTRPG-1000	JTRPG-2000
有效容积 Effective volume (L)		100	300	600	600	2000
罐体 Tank	直径 Diameter (mm)	Φ500	Φ800	Φ900	Φ1100	Φ1300
	高度 Height (mm)	500	700	900	1000	1500
搅拌 Mixing	电机功率 Power (kW)	0.37	0.75	1.1	1.5	2.2
	搅拌工作转速 RPM (r/min)	36 ~ 53 (倾叶开启涡轮式) 或 200 (推进式) (可根据客户使用情况进行调整设计) 36 ~ 53(Special open turbine impellers)/200(propeller)(Can adjust the design according to the customer's usage)				
参数 Parameters	型号 Model	JTRPG-3000	JTRPG-4000	JTRPG-5000	JTRPG-8000	JTRPG-10000
有效容积 Effective volume (L)		3000	4000	5000	8000	10000
罐体 Tank	直径 Diameter (mm)	Φ1800	Φ1700	Φ1800	Φ2000	Φ2200
	高度 Height (mm)	1800	1800	1800	2000	2400
搅拌 Mixing	电机功率 Power (kW)	3	4	5	7.5	9.2
	搅拌工作转速 RPM (r/min)	36 ~ 53 (倾叶开启涡轮式) 或 200 (推进式) (可根据客户使用情况进行调整设计) 36 ~ 53(Special open turbine impellers)/200(propeller)(Can adjust the design according to the customer's usage)				

上表数据为标准型, 仅供参考, 可根据客户要求定制;
The above-mentioned data is the standard, it can customize according to customer's requirements.