

Technical Data for Design, Manufacture and Inspection

Kettle		Jacket		Vessel type	
Design pressure MPa	0.5	ATM		Type	Partial
Design temperature °C	150	150		Flange diameter	
Work pressure MPa	0.3	ATM		Sealing type	Magnetic sealing
Work temperature °C	133.7	133.7		Speed r/min	0-300
Medium	/	Oil		Motor	Type / Power kW / Explosion-proof grade
Media characteristics	/	/		Type	/
Corrosion allowance mm	1.0	1.0		Reducer	Type /
Heat exchange area m <sup>2</sup>	/	/		Ratio	/
Material	SS316L	Q345R		Work volume L	1000
Weld joint coefficient	1.0	/		Total volume L	1250
Safety valve	Type	Open pressure	Nominal pressure		
	Grade	Diameter DN	(Design pressure/Design)		

Manufacture and Inspection Request

GB150.1-4-2011, HG/T3648-1999, monitor by fixed pressure vessel safe technical monitor process

Welding process		As per NB/T47015-2011		Flange welding as per related flange standard	
Kettle	A, B	100%	Ray detection		
	A, B	By media length is 3% of weld length of the welding line, but not less than 25mm.		JB/T4730.2-2005, RT-II grade	
Jacket	A, B	100%	Penetration detection		
	A, B	By media length is 3% of weld length of the welding line, but not less than 25mm.		JB/T4730.2-2005, RT-II grade	
Hydraulic Pressure	/	MPa	/	MPa	Surface treatment
Leakage	/	MPa	/	MPa	Polishing treatment
Coating, painting and transportation As per JB/T4741-2003					
Nozzle position As per drawing					

Technical requirements

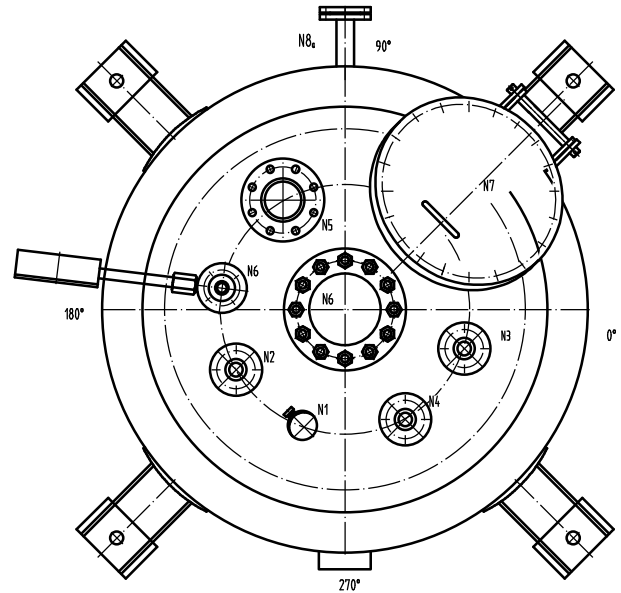
- After agitator assembly, manual turning, no stuck.
- After assembly completed, input water instead of media at the position of jacket mouth, test rotation under designed pressure for testing for more than 4 hours, no noise and vibration, after testing approval, blow water inside kettle immediately.
- The rotation direction of agitator shaft should be in accordance with the drawing, not in converse direction.
- After agitator assembly, should do dynamic balance test.
- During test and operation, the chloride content in water should not exceed 25ml/L in the equipment.
- During magnetic coupling rotation or temperature increasing inside kettle, should inject cooling water into qt-2, rt-2 part, should inject grease approx.100mg into the bears of agitator through st-2 according to working strength.

Nozzle pipe table

No.	Nominal diameter DN	Connection dimension standard and pressure rating	Connection form	Usage and name
N1	25	HG/T20592-2009 PL PN16	M27x2 Screw	Kettle thermowell part
N2	25 (CB)	HG/T20592-2009 PL PN16	M	Gas inlet part
N3	25 (CB)	HG/T20592-2009 PL PN16	M	Vent part
N4	25 (CB)	HG/T20592-2009 PL PN16	M	Water inlet part
N5	50 (CB)	HG/T20592-2009 PL PN16	M	Feeding part
N6	50 (CB)/15	HG/T20592-2009 PL PN16/M20x1.5 left	M/Screw	Pressure gauge/ bursting disc part
N7	400	/	/	Man hole
N8	25 (CB)	HG/T20592-2009 PL PN16	RF	Thermal oil inlet/outlet
N9	32 (CB)	HG/T20592-2009 PL PN16	RF	Discharge part
N10	/	/	/	Sprinkler part

Equipment:

- PID automatic adjustable controller (frequency regulation, display motor current, display temperature).
- Equip with magnetic coupler with motor.
- Kettle lid open pressure gauge/blasting disc, PT100 temperature senser, blinding plate on feeding port, bottom valve (ball valve) on discharging port.
- Material: kettle body, head material and all contacting material is SS316L, jacket is Q345R.
- Equip with insulation and legs.



图号	000
材料号	000
图例	000
备注	
设计	
审核	
批准	

威海环宇化工机械有限公司 WEIHAI GLOBAL CHEMICAL MACHINERY CO., LTD.	2020	SS316L
	GSH-1000L REACTOR	
设计	设计项目	施工期
审核	设计审核	HY/Y1000-2005-2803
批准	比例 1:8	专业 设备
	第 张	共 张