



Standard Glass™

Customer Inspired Excellence

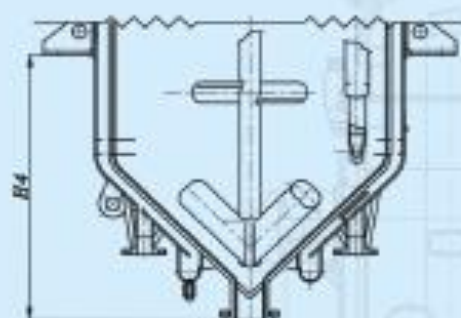
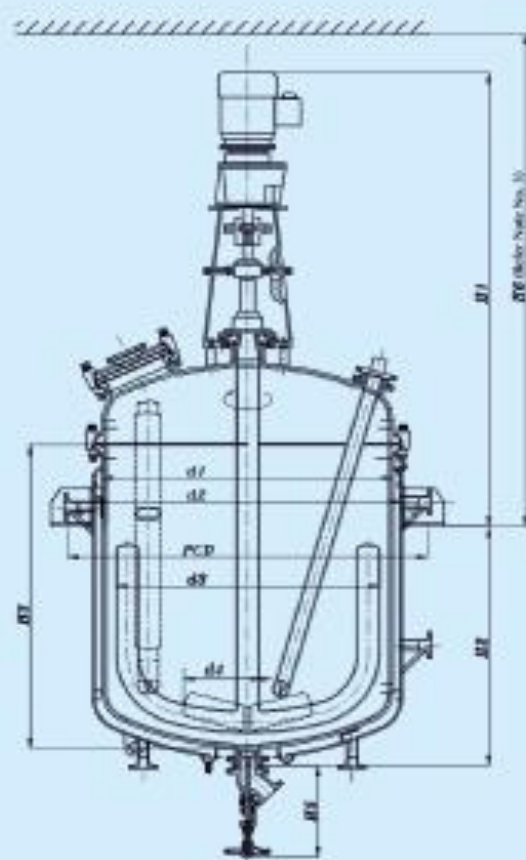
AE Reactors



Introduction

This model is of two piece construction with top cover clamped to vessel, and manufactured from 63 to 6300 liters capacity as per DIN 28136 standard, and other major components are as per respective DIN standards.

GEOMETRICAL DATA

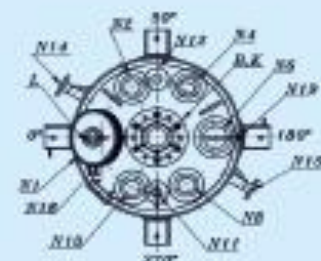


Capacity (Liters)	Main Dimensions											Total Volume (Liters)	Jacket Volume (Liters)	Heat Transfer Area (m ²)	Motor Capacity (HP)	Total Weight (kg)
	Shell OD d1	Jacket OD d2	d3	d4	PCD	H1	H2	H3	H4	H5	H6					
63	508	600	420	300	752	1620	228	400	-	491	1550	88	24	0.5	1.5	693
100	508	600	420	300	752	1670	368	588	-	491	1675	124	37	0.8	1.5	800
160	600	700	500	360	852	1680	438	700	-	491	2095	205	58	1.2	1.5	905
250	700	800	600	420	952	2150	508	800	770	491	2390	320	78	1.6	1.5	1135
630	1000	1100	880	600	1356	2170	703	1003	990	530	2350	848	190	3.0	3	1850
1000	1200	1300	1080	720	1560	2280	806	1200	990	530	2910	1494	290	4.5	3	2510
1600	1400	1500	1250	840	1780	2470	1007	1307	1255	530	3235	2344	275	6.3	5	3350
2500	1400	1500	1250	840	1780	2480	1217	1507	1570	530	3435	2620	322	7.2	5	3860
3000	1600	1700	1440	960	1980	2535	1381	1767	1855	530	3680	3772	407	9.0	5	4700
4000	1800	1900	1630	1100	2210	2876	1470	2000	1848	530	4190	5407	488	11.8	7.5	6110
5000	2000	2100	1810	1100	2414	3247	1458	2000	1732	572	4645	6990	561	13.0	10	7100
6300	2000	2100	1810	1100	2414	3235	1956	2500	2163	572	5180	8230	685	16.2	12.5	8300

NOZZLE ORIENTATION



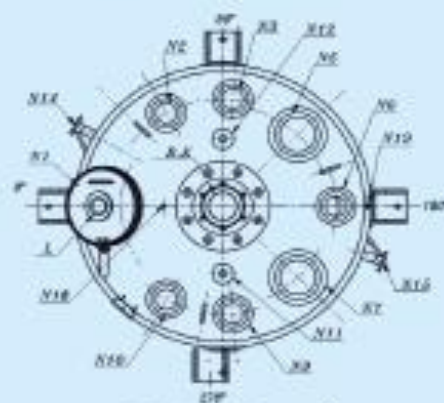
HEAD LAYOUT → ①



HEAD LAYOUT → ②



HEAD LAYOUT → ③



HEAD LAYOUT → ④

Capacity L (m³)	Head Layout	Vessel & Cover Nozzles DN											Jacket Nozzles (Qty.) DN							
		N1	L	B	K	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	N14	N15	N18	N19
53	1	100	40	05	80	40	-	80	-	80	-	80	-	40	40	40	40	40	12"	1/2"
100	1	100	40	05	80	40	-	80	-	80	-	80	-	40	40	40	40	40	12"	1/2"
180	1	100	40	05	80	50	-	80	-	80	-	80	-	50	40	40	40	40	12"	1/2"
250	2	150	50	80	80	50	-	80	-	80	-	80	-	50	40	40	40	40	12"	1/2"
630	2	250	100	125	100	100	-	100	-	150	-	100	-	100	50	50	50	50	12"	1/2"
1000	3	350x 450	100	125	100	100	100	-	200	100	200	-	100	100	50	50	50	50	12"	1/2"
1800	3	350x 450	100	150	100	100	100	-	200	100	200	-	100	100	50	50	50	50	12"	1/2"
2000	3	350x 450	100	180	100	100	100	-	200	100	200	-	100	100	50	50	50	50	12"	1/2"
3000	3	350x 450	100	180	150	100	100	-	200	100	200	-	100	100	50	50	50	50	12"	1/2"
4000	4	500	100	200	150	150	150	-	250	150	250	-	150	150	50	50	50	50	12"	1/2"
5000	4	500	100	200	150	150	150	-	250	150	250	-	150	150	50	50	50(2)	50	12"	1/2"
6300	4	500	100	200	150	150	150	-	250	150	250	-	150	150	50	50	50(2)	50	12"	1/2"

NOTES:

1. All Dimensions are in 'mm', unless otherwise specified.
2. Without Prior notice, Specifications are subject to change for continual improvement.
3. H6 is the minimum distance required from lug level, to remove the agitator.
4. Custom built capacities can also be manufactured on customer request.

1. Codes & Standards

1	Design & Construction	ASME Sec. VIII, Division – I, Latest Edition.
2	Main Dimensions	DIN 28136
3	Flange Drilling	ANSI - B 16.5, #150

2. Design Data

Sl. No.	Description	Units	Vessel	Jacket
1	Pressure	Kg/cm ² (g)	FM. to 6	6
2	Temperature	°C	-28.8 to 200	-28.8 to 200
3	Corosion Allowance (Base Metal)	mm	1.5	1.5
4	Weld Joint Efficiency	...	1.0	0.65
5	Glass Lining Thickness	mm	Min. 1.0, Max. 2.0	

3. Agitating System

Sl. No.	Description	Details	
1	Agitator	Anchor	Propeller
2	RPM	48	98
3	Allowable Max. RPM	N/A	120
4	Agitator Mounting	Two taper roller bearings back to back assembly on drive stand.	
5	Agitator Drive	Coupled with intermediate bearing on drive stand.	
6	Shaft Seal	Single Mechanical Seal with bearing.	
7	Gear Box Drive	In line Helical, Bonfiglioli make or equivalent.	
8	Motor	Flame proof motor, flange mounted, Crompton make or equivalent.	

4. Features

Sl. No.	Standard	Optional
1	Anchor / Propeller agitator	Anchor / Propeller agitator with intermediate propeller/PBT
2	Thermowell / Baffle-cum-thermowell	Thermowell / Baffle-cum-thermowell with tantalum tip
3	Flush bottom valve assy	Flush bottom valve assy. with thermosensor & tantalum tip

5. Other Optional features

1	Jacket and Top cover insulation & cladding (Refer our Product attributes Doc. No SP4-03 for GMP Equipment)
2	PTFE Lined dip pipe, PTFE Lined Sparger, PTFE 'J' Pipe, PTFE spray ball arrangement
3	Flush Bottom Valve Assembly : Bottom Opening type, Bellow support type, Pneumatic actuator type & Paker type