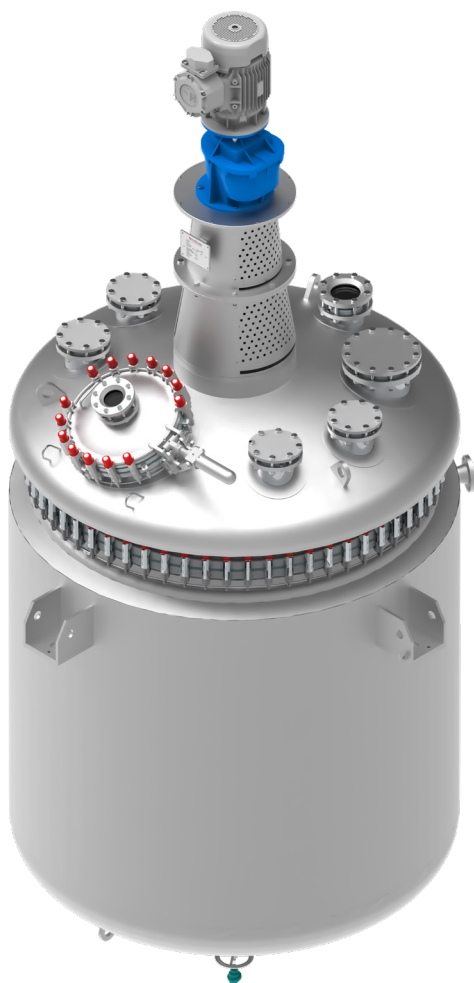




AE REACTORS

Your Benefits

- One Piece Agitator
- Smaller Volume Reactors
- Additional Space for Nozzles
- Easy Maintenance Operations
- Removable Flanged / Clamped Top Cover



Standard Glass™
Customer Inspired Excellence

Standard Glass Lining Technology Limited (Standard Group company) is a leading manufacturer of Glass lined equipment and Alloy equipment. Standard glass clientele includes major manufactures of Pharmaceutical, API / Bulk Drugs, Chemical, Agrochemical, Biotechnology, Life Science and Food industries.

Our Equipment is designed and manufactured as per international codes like DIN, ASME, BS, PED etc. for better performance and durability.

Standard Group manufacturing facilities are fitted with best world class machinery and U stamp certified by ASME.

Our Organisation certified with ISO 9001:2015, 14001:2015, 27001:2022, 45001:2018.

Our Equipments:

- **Glass lined equipment and Alloy equipment:** Reactors, Receivers, Storage Tanks, Heat Exchangers, Dryers and Filters, ANFD, RCVD, VTD, Nauta and Conical Dryers, PNF, Candle Filters, Single Fluid Heating and Cooling System, ANF, Tray Dryers, Leaf Filters, Distillation Columns, Double Cone and V-Blenders, Polygon Blenders, Octagonal Blenders, Fluidized Bed Dryer, Falling Film Evaporator, RVPD
- Vacuum Pumps, Dry Claw Vacuum Pumps, Rotary Vane Pumps
- Mechanical Seals, Seal Support Systems and Bearing Seals
- Ball Valves, Butterfly Valves, Flush Bottom Valves

- Isolators for API, Formulation and Injectable, Powder Charging Systems

- PTFE Lined Products, Strainer, Valves

Custom built equipment is done on request of client.

AE Reactors:

AE also known as Flange-Type Glass-Lined Reactors, are a specific type of glass-lined reactor designed for various chemical and industrial processes. These reactors are characterized by the presence of flanges at the top of the vessel.

These flanges serve several purposes and offer some unique advantage.

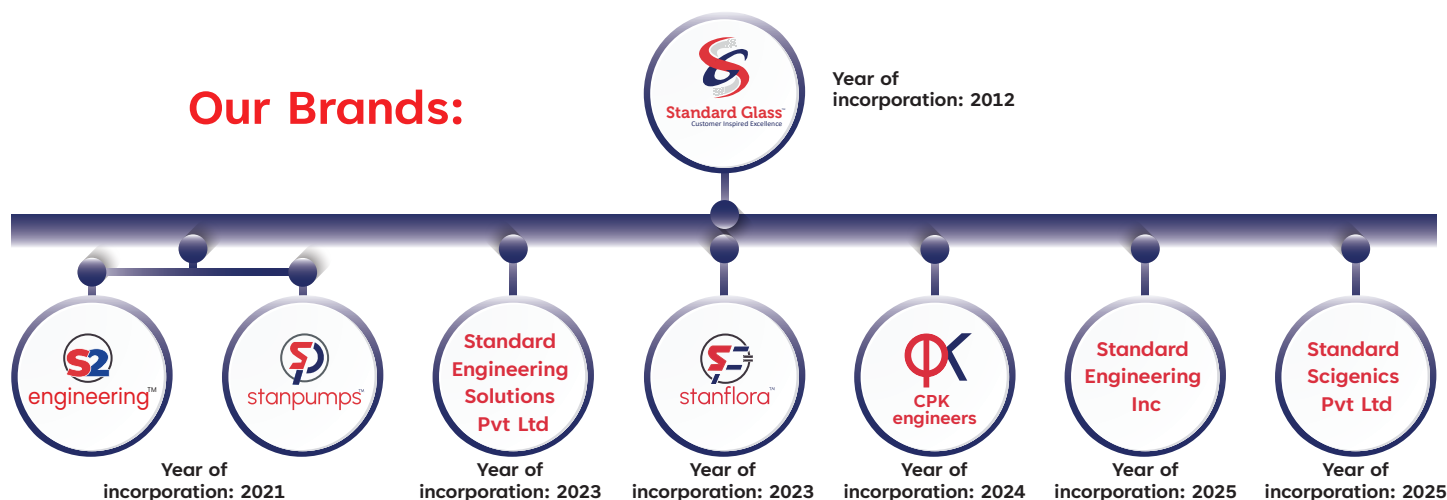
Ease of Maintenance: The presence of flanges at top of the reactor makes it easier to access and maintain the interior of the vessel. This is particularly useful for tasks such as cleaning, inspection, and repairs. Flange type reactor allows for the removal of the top head and providing better access to the glass lining.

Versatility: AE Flanged Reactors are versatile, and all type of agitators can be accommodated, Process includes including mixing, reactions, distillation, and more. Top flanges facilitate the addition of accessories and modifications to suit specific process requirements.

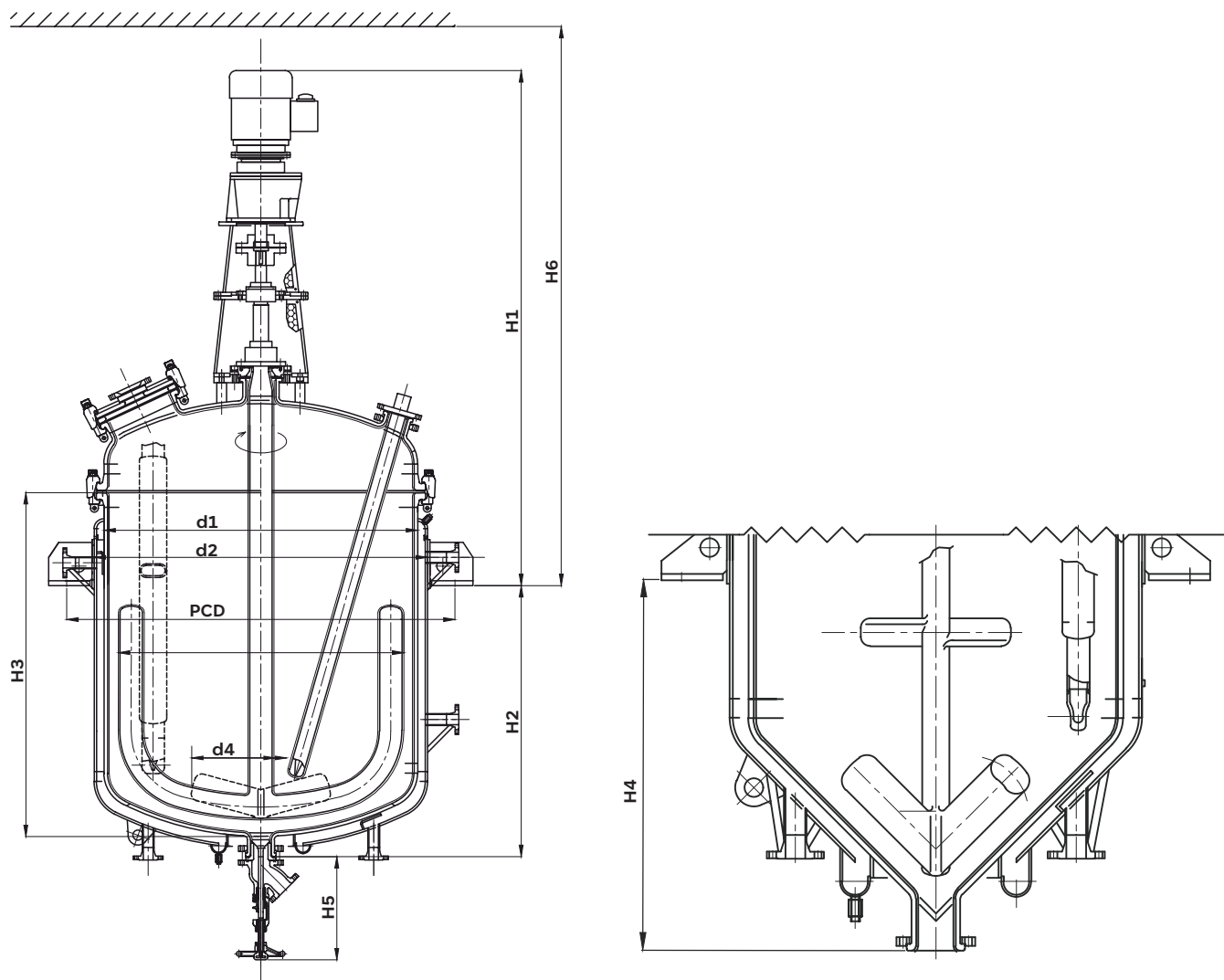
Design Conditions:

- Design pressure: FV / 6 bar
- Design temperature: -28.8 °C to +220 °C

Our Brands:



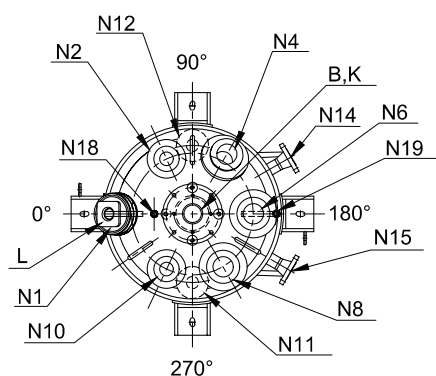
Dimensions



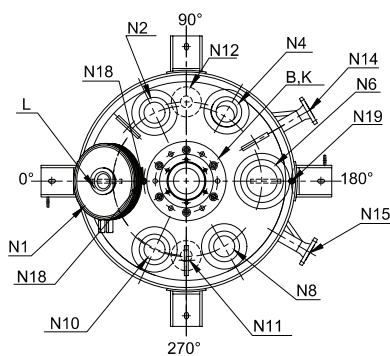
All dimensions are in MM and volume is in liters

Capacity in Liters	Main Dimensions											Total Volume in Liters	Jacket Volume in Liters	Heat Transfer Area in m²	Motor Capacity in H.P.	Total Weight in Kg
	Vessel 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	660
100	508	600	420	300	752	1670	368	598	-	491	1875	124	37	0.8	1.5	850
160	600	700	500	360	852	1680	438	700	-	491	2065	205	56	1.2	1.5	905
250	700	800	600	420	952	2150	508	800	770	491	2350	320	78	1.6	1.5	1,135
630	1000	1100	880	600	1356	2170	703	1003	990	530	2350	846	160	3.0	3.0	1,850
1000	1200	1300	1060	720	1560	2280	806	1200	990	530	2910	1494	200	4.5	3.0	2,510
1600	1400	1500	1250	840	1780	2470	1007	1397	1295	530	3235	2344	275	6.3	5.0	3,350
2000	1400	1500	1250	840	1780	2460	1217	1597	1570	530	3435	2620	322	7.2	5.0	3,660
3000	1600	1700	1440	960	1980	2535	1391	1767	1855	530	3650	3772	407	9.0	5.0	4,700
4000	1800	1900	1630	1100	2210	2976	1470	2000	1848	530	4180	5407	495	11.8	7.5	6,110
5000	2000	2100	1810	1100	2414	3247	1458	2000	1732	572	4645	6680	561	13.0	10.0	7,100
6300	2000	2100	1810	1100	2414	3235	1956	2500	2163	572	5140	8230	685	16.2	12.5	8,300

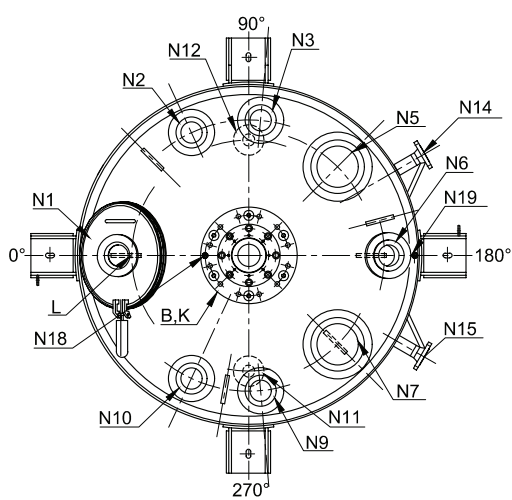
Nozzle Orientation



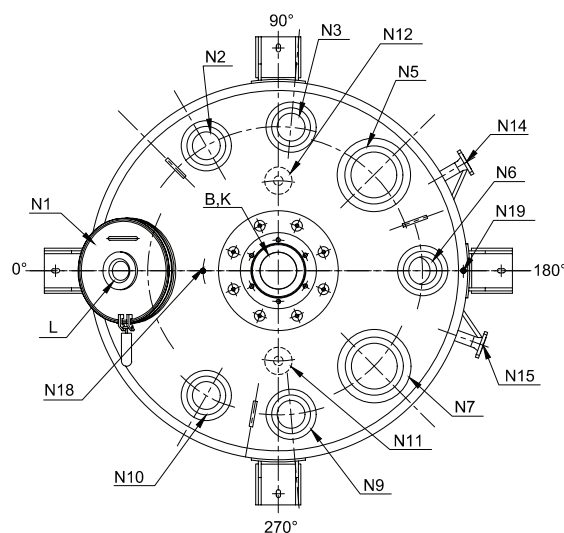
HEAD LAYOUT ①



HEAD LAYOUT ②



HEAD LAYOUT ③

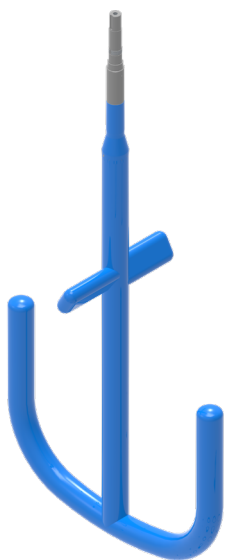


HEAD LAYOUT ④

All dimensions are in MM

Capacity in Liters	Head Layout	Vessel & Cover Nozzles as per DIN													Jacket Nozzles Quantity as per DIN					
		N1	L	B	K	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	N14	N15	N18	N19
63	1	100	40	65	80	40	-	80	-	80	-	50	-	40	40	40	40	40	1/2"	1/2"
100	1	100	40	65	80	40	-	80	-	80	-	50	-	40	40	40	40	40	1/2"	1/2"
160	1	100	40	65	80	50	-	80	-	80	-	80	-	50	40	40	40	40	1/2"	1/2"
250	1	150	50	80	80	50	-	80	-	80	-	80	-	50	40	40	40	40	1/2"	1/2"
630	2	250	100	125	100	100	-	100	-	150	-	100	-	100	50	50	50	50	1/2"	1/2"
1000	3	350x 450	100	125	100	100	100	-	200	100	200	-	100	100	50	50	50	50	1/2"	1/2"
1600	3	350x 450	100	150	100	100	100	-	200	100	200	-	100	100	50	50	50	50	1/2"	1/2"
2000	3	350x 450	100	150	100	100	100	-	200	100	200	-	100	100	50	50	50	50	1/2"	1/2"
3000	3	350x 450	100	150	100	100	100	-	200	100	200	-	100	100	50	50	50	50	1/2"	1/2"
4000	4	500	100	200	100	150	150	-	250	150	250	-	150	150	50	80	50	80	1/2"	1/2"
5000	4	500	100	200	200	150	150	-	250	150	250	-	150	150	50	80	50(2)	80	1/2"	1/2"
6300	4	500	100	200	200	150	150	-	250	150	250	-	150	150	50	80	50(2)	80	1/2"	1/2"

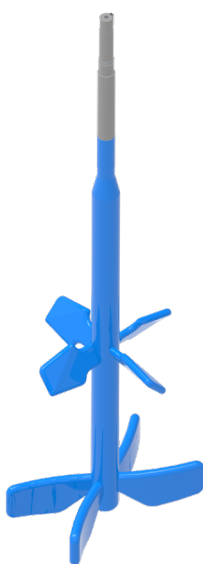
Types of Agitators



Anchor



2 STAGE CBRT



CBRT+TBF



CBT



Propellor



CBRT



TBF

Glass:

Available in

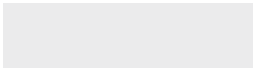
- Mild Steel / Carbon Steel
- Stainless Steel



Standard Blue



Stansky Blue



Stansnow White

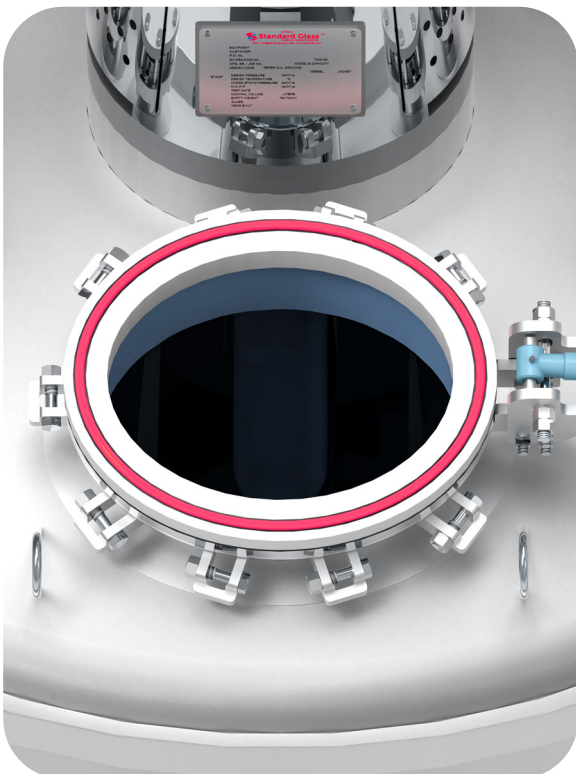
Note: For more information please refer stanglass catalogue

Extra Accessories

Innovation and Development

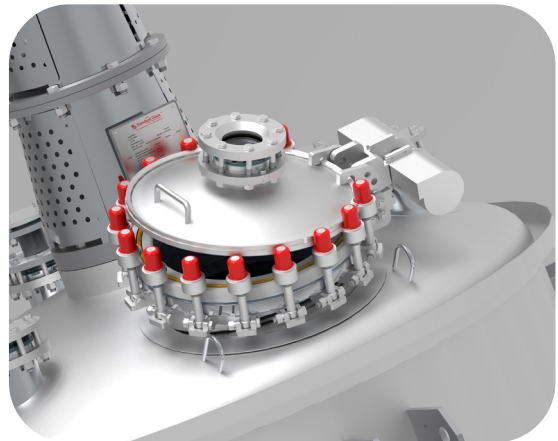
SMART SEAL®

- The Protective bush is designed to fit snugly around the manhole cover of a glass-lined reactor, providing a barrier to prevent the maintenance hole cover from hitting the vessel.
- The protective bush is made of a durable, non-contaminating material and is designed to be easily removable for cleaning or maintenance purposes.
- No Shimming Required
- Less Maintenance
- Easy to Clean
- Zero Skill Installation
- Gasket Free
- High Durability



STAN BALANCER FOR MANHOLE COVER WITH CAMLOCK

A stan balancer is a double-spring mechanism that prevents the manhole from a sudden fall and hitting.



AGITATING NOZZLE

Agitating nozzles are designed to improve the flow dynamics within jacketed reactors. They achieve this by generating turbulent flow, which is essential for effective heating or cooling of the reactor contents. The nozzles project into the jacket space and create a hydraulic jet that discharges at a right angle, promoting turbulence throughout the jacket. This turbulence is crucial for maintaining uniform temperature distribution and optimizing heat transfer efficiency.



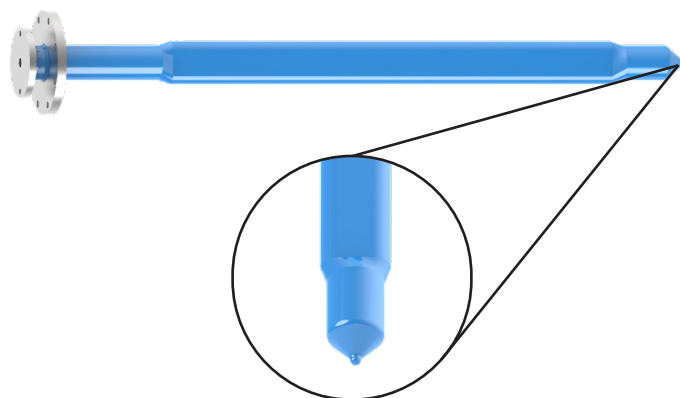
NOZZLE CLEANING RING

Nozzle Cleaning Ring provides better cleaning from nozzle top after batch to avoid any contamination.



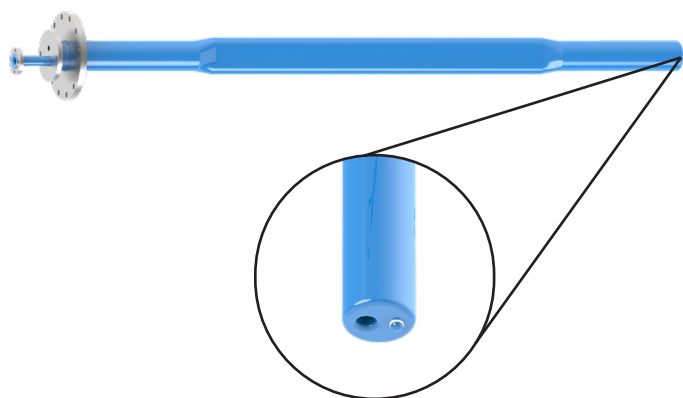
CONDUCTIVE BEAVER TAIL BAFFLE

Glass lined with conductive glass to avoid static charge and minimize or avoid glass damage.



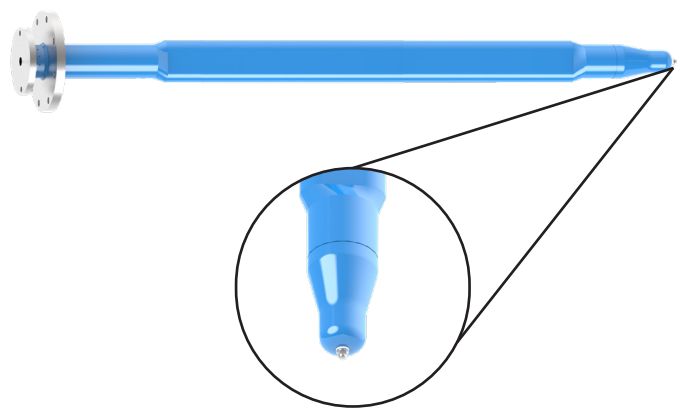
BAFFLE CUM DIP PIPE

Optimized design for combining baffle and dip pipe as a single component. This means that one more nozzle is available.



BAFFLE WITH TANTALUM TIP

Adding a tantalum tip at the bottom of the baffle helps for fast temperature respond.



CONDUCTIVE SPINDLE

The spindle has an Antistatic glass tip that improves time temperature respond.



Certification available:



Our **company** serves:

- Pharmaceuticals
- API
- Chemical
- Agrochemical
- Biotechnology
- Life Sciences
- Food and Beverages



Scan to



Know more

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Customer Inspired Excellence

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