Heta Glass Industries

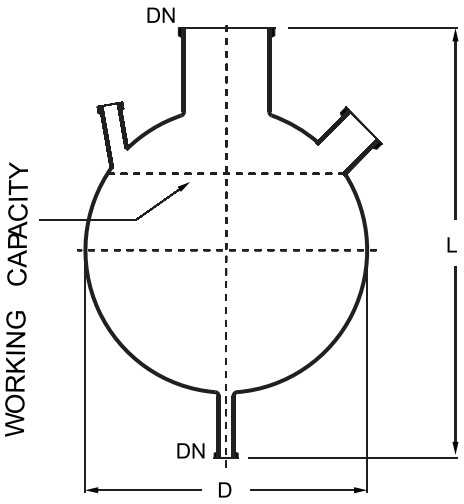
VESSELS & STRIRRERS

INTRODUCTION

In the majority of glass plant installations, vessels find universal applications as reactors, re-boilers, receivers and separators as well as for storage, feed or measuring.

Vessels are available in spherical & cylindrical shape form 5 to 500 liter capacity. All vessels are provided with bottom outlet nozzle for which a suitable valve can be selected form the range of valves. Both spherical and cylindrical vessels can be supplied with graduation to special order.

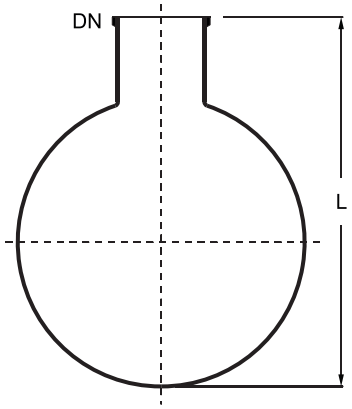
Cylindrical vessel can be supplied with glass / metal jacket also.



SPHERICAL VESSELS GENERAL DATA

Nominal Cap. Ltr.	Bulb Cap. Ltr.	Working Cap. Ltr.	Maximum Internal Pressure (bar G.)
5L	5L	4L	1.0
10L	10L	9L	0.8
20L	21L	20L	0.7
50L	62L	58L	0.5
100L	118L	111L	0.4
200L	212L	200L	0.25
300L	315L	300L	0.2

Nominal Cap. Ltr.	Bulb Diameter in MM (D)	Vessel Length in MM (L)	Tolerance in Diameter mm	Tolerance in Length mm L
5L	223	425	±2	±5
10L	285	500	±2	±5
20L	350	575	±2	±5
50L	490	800	±3	±5
100L	600	900	±5	±10
200L	750	1100	±5	±15
300L	860	1175	±6	±15

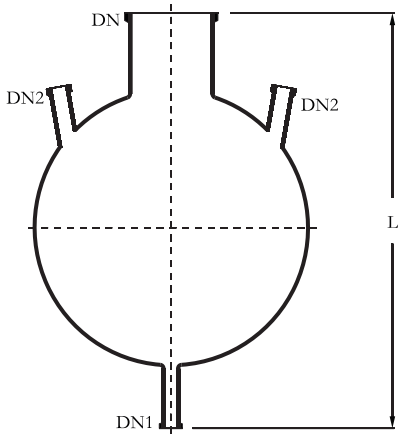


SINGLE NECK SPHERICAL VESSEL

Nominal Cap. Ltr.	DN mm	L mm
5L	50	300
10L	80	375
20L	100	450
50L	150	600
100L	225	700
200L	300	900
300L	400	1000

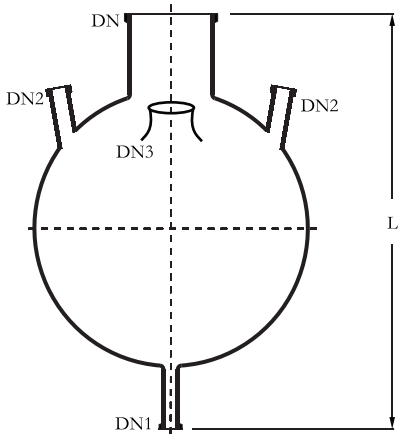
THREE NECK BOTTOM OUTLET SPHERICAL VESSEL

Nominal Cap. Ltr	DN mm	DN1 mm	DN2 mm	L mm
5L	50	25	25	425
10L	80	25	25	500
20L	100	25	25	575
50L	150	40	40	800
100L	225	40	40	900
200L	300	40	40	1100
300L	400	50	50	1175



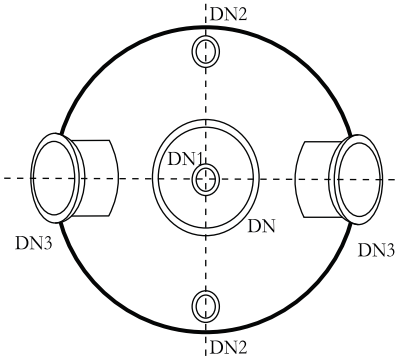
FOUR NECK BOTTOM OUTLET SPHERICAL VESSEL

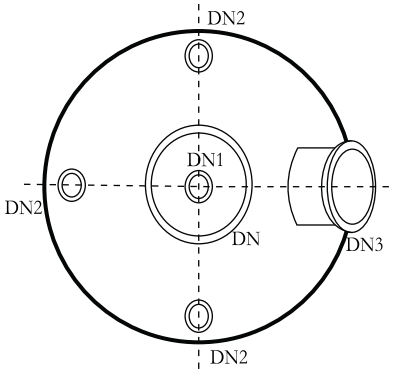
Nominal Cap. Ltr	DN MM	DN1 MM	DN2 MM	DN3 MM	L MM
5L	50	25	25	40	425
10L	80	25	25	40	500
20L	100	25	25	40	575
50L	150	40	40	100	800
100L	225	40	40	100	900
200L	300	40	40	100	1100
300L	400	50	50	100	1175



FIVE NECK BOTTOM OUTLET SPHERICAL VESSEL

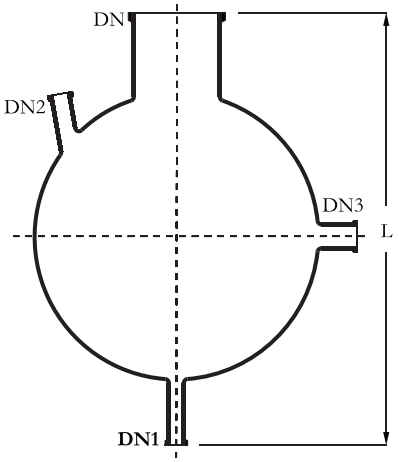
Nominal Cap. Ltr	DN MM	DN1 MM	DN2 MM	DN3 MM	L MM
5L	50	25	25	40	425
10L	80	25	25	40	500
20L	100	25	25	40	575
50L	150	40	40	100	800
100L	225	40	40	100	900
200L	300	40	40	100	1100
300L	400	50	50	100	1175





FIVE NECK BOTTOM OUTLET SPHERICAL VESSELS

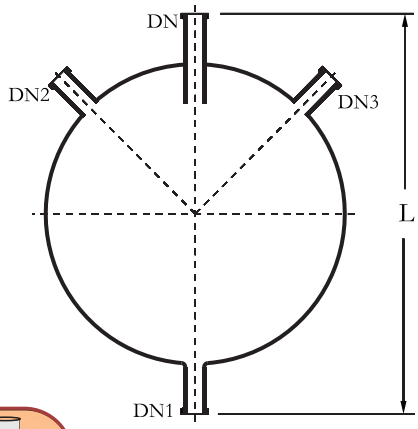
Nominal Cap. Ltr	DN MM	DN1 MM	DN2 MM	DN3 MM	L MM
5L	50	25	25	40	425
10L	80	25	25	40	500
20L	100	25	25	40	575
50L	150	40	40	100	800
100L	225	40	40	100	900
200L	300	40	40	100	1100
300L	400	50	50	100	1175



SPHERICAL VESSEL WITH NOZZEL AT 90°

This vessel isused in circulatory boiler systems. Additional nozzles can be provided on the equator on request for special requirement .

Nominal Cap. Ltr	DN MM	DN1 MM	DN2 MM	DN3 MM	L MM
5L	50	25	25	50	425
10L	80	25	25	50	500
20L	100	25	25	50	575
50L	150	40	40	80	800
100L	225	40	40	80	900
200L	300	40	40	100	1100
300L	400	50	50	150	1175



RECEIVER SPHERICAL VESSEL

Receiveris provided with built in dip pipe. This is to be supported on a vessel holding ring.

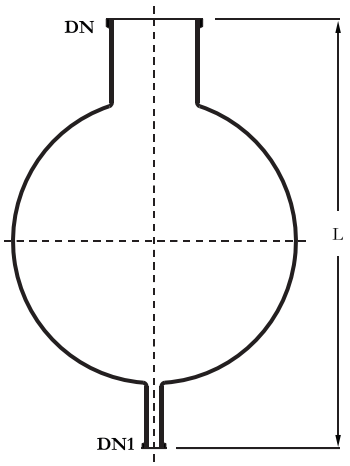
Nominal Cap. Ltr	DN MM	DN1 MM	DN2 45°	DN3 45°	L MM
5L	25	25	25	-	350
10L	25	25	25	-	425
20L	25	25	25	-	500
5L	25	25	25	25	350
10L	25	25	25	25	425
20L	25	25	25	25	500

VESSELS & STIRRERS

ADDITION SPHERICAL VESSEL

This vessel is provided with a short bottom outlet , it should be supported on vessel holder / holding ring.

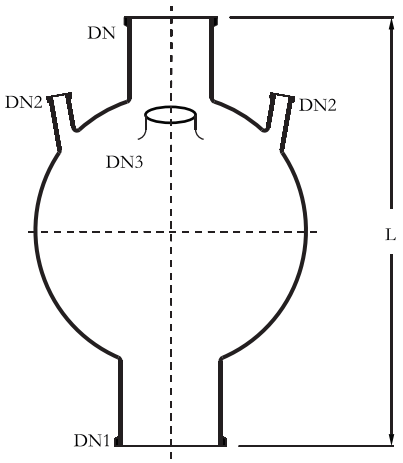
Nominal Cap. Ltr	DN MM	DN1 MM	L MM
5L	50	25	375
10L	80	25	435
20L	100	25	510
50L	150	40	675
100L	225	40	775
200L	300	40	975
300L	400	50	1075



WIDE BOTTOM OUTLET SPHERICAL VESSEL

This vessel is used to fit immersion heat exchanger at the bottom.

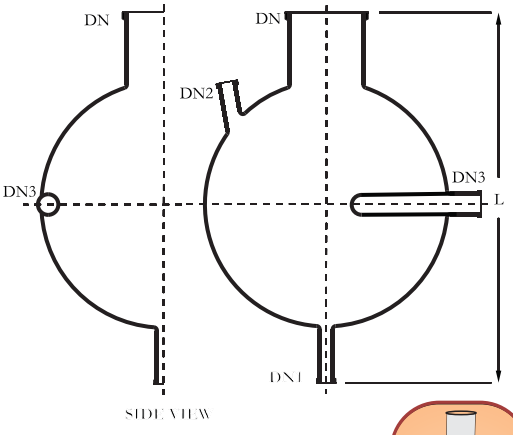
Nominal Cap. Ltr	DN MM	DN1 MM	DN2 MM	DN3 MM	L MM
50 L	150	150	40	100	800
100 L	225	150	40	100	900
200 L	300	150	40	100	1150
50 L	150	225	40	100	825
100 L	225	225	40	100	950
200 L	300	225	40	100	1200

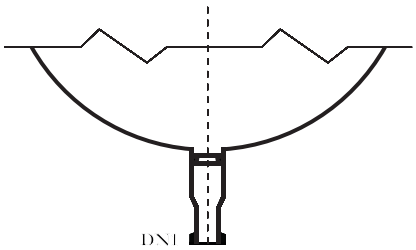


CYCLONE SPHERICAL VESSEL

Cyclone is used for the separation of droplets and solids from gases and vapours. Cyclone is supported on a vessel holder. A dip pipe is used on the top neck.

Nominal Cap. Ltr	DN MM	DN1 MM	DN2 MM	DN3 MM	L MM
5L	50	25	25	40	425
10L	80	25	25	40	500
20L	100	25	25	50	575
50L	150	40	40	50	800



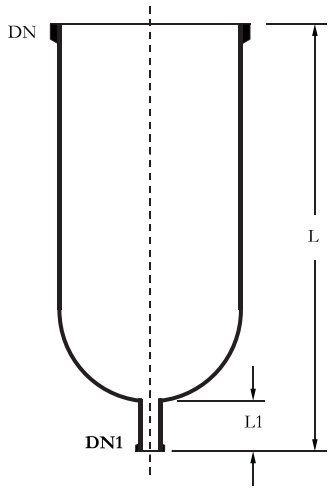


VESSEL WITH BOTTOM OUTLET VALVE SEAT

To fit a bottom outlet valve (BAL type) all spherical and cylindrical vessel can be supplied with valve seat in bottom outlet.

CYLINDRICAL VESSEL

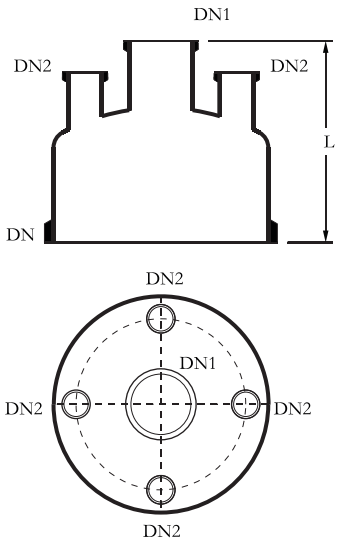
Cylindrical vessels can be used for various applications such as reaction, separating receiver, feeding etc. 50 liter and above cylindrical vessels need to be supported in a vessel holder.



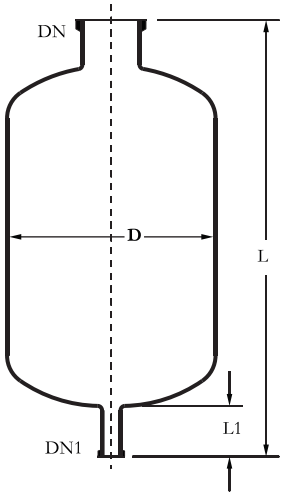
Nominal Cap. Ltr	DN MM	DN1 MM	L MM	L1 MM	CAT. REF.
5L	100	25	700	60	HVZ5/4
5L	150	25	460	60	HVZ5/6
10L	150	25	700	60	HVZ10/6
20L	225	25	750	60	HVZ20/9
30L	300	40	650	60	HVZ30/12
50L	300	40	915	65	HVZ50/12
100L	450	40	900	65	HVZ100/18
150L	450	40	1200	65	HVZ150/16
200L	450	40	1500	65	HVZ200/18
300L	600	50	1300	65	HVZ300/24
400L	600	50	1650	65	HVZ300/24

If need the graduation marking on the vessel, please mention the "G" with catalogue code.
The same vessel can be supplied in reduced top neck.

CYLINDRICAL VESSEL COVER

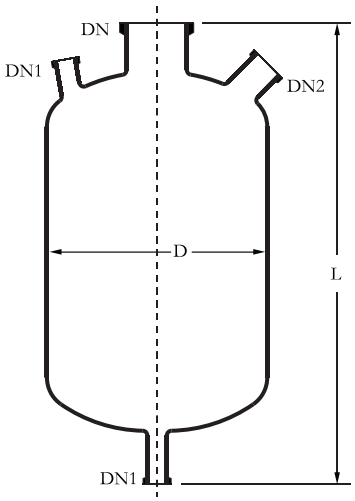


Nominal Cap. Ltr	DN MM	DN1 MM	DN2 MM	L MM	CAT. REF.
5L	100	-	2 x 25	200	HVZA5/4
5L	150	-	2 x 25	200	HVZA5/6
10L	150	50	2 x 25	200	HVZA10/6
20L	225	50	3 x 25	250	HVZA20/9
30L	300	50	3 x 25	250	HVZA30/12
50L	300	50	3 x 40	250	HVZA50/12
	300	80	3 x 50	250	
100L	450	50	3 x 40	275	HVZA100/18
	450	80	3 x 40	275	
	450	100	3 x 40	275	
150L	400	100	3 x 40	275	HVZA150/16
200L	450	100	3 x 40	275	HVZA200/18
300L	600	50	3 x 40	300	HVZA300/24
	600	80	4 x 40	300	
	600	100	4 x 40	300	
400L	600	100	4 x 40	300	HVZA400/24



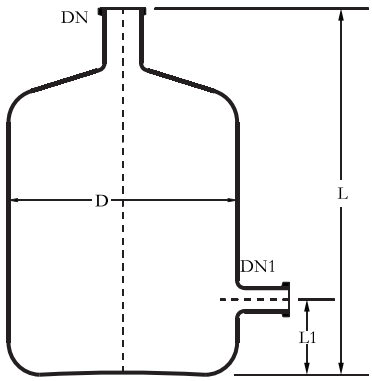
CYLINDRICAL RECEIVER VESSEL

Nominal Cap. Ltr	D MM	DN MM	DN1 MM	L MM	L1 MM	CAT. REF.
20L	300	100	25	650	60	HVZR20/12
30L	300	150	25	800	65	HVZR30/12
50L	300	150	40	1000	65	HVZR50/12
100L	450	225	40	1100	65	HVZR100/18
150L	450	225	40	1400	65	HVZR150/16
200L	450	225	40	1625	65	HVZR200/18
300L	600	225	40	1500	75	HVZR300/24
400L	600	300	40	1715	75	HVZR400/24



CYLINDRICAL FLASK

Nominal Cap. Ltr	D MM	DN MM	DN1 MM	DN2	L MM	CAT. REF.
5L	200	50	25	40	475	HVCY5
10L	220	50	25	40	600	HVCY10
20L	300	80	25	50	650	HVCY20
30L	300	80	25	50	790	HVCY30
50L	420	100	40	100	795	HVCY50
100L	470	150	40	100	1020	HVCY100
150L	470	150	40	100	1315	HVCY150
200L	600	225	40	100	1190	HVCY200
300L	600	225	40	100	1590	HVCY300
400L	600	300	40	100	1715	HVCY400



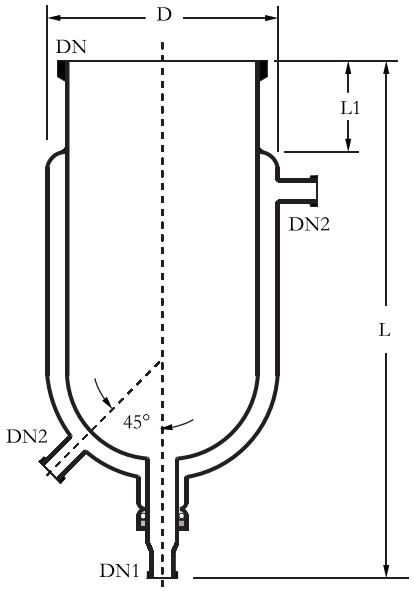
ASPIRATOR BOTLE

Nominal Cap. Ltr	D MM	DN MM	DN1 MM	L MM	L1 MM	CAT. REF.
10L	215	40	25	410	100	HAB10
20L	280	40	25	485	100	HAB20

JACKETED VESSEL

For special applications, cylindrical vessels can be supplied with a jacket for heating or cooling. Jacket is sealed to the vessel with silicon rubber or viton '0' ring and other sealing compositions. The seal prevents impermissible high stresses between vessel and jacket and allows the movement which comes due to thermal expansion.

- Glass jacket can be used for a maximum operating pressure of 0.5 bar g .
- Maximum operating temperature is150°C in jacket.
- °



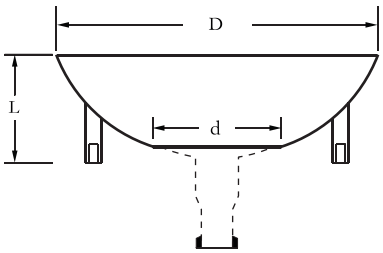
Nominal Cap. Ltr	DN MM	DN1 MM	DN2 MM	D MM	L MM	L1 MM	CAT. REF.
5L	100	25	25	165	825	150	HVZD5/4
	150	25	25	220	600	150	HVZD5/6
10L	150	25	25	220	850	150	HVZD10/6
	225	40	25	300	600	175	HVZD10/9
20L	225	40	25	300	900	200	HVZD20/9
	300	40	25	390	650	200	HVZD20/12
30L	300	40	25	390	775	200	HVZD30/12
50L	300	40	25	390	1050	200	HVZD50/12
60L	300	40	25	390	1200	200	HVZD60/12
100L	400	40	25	460	1100	210	HVZD100/16
	450	40	25	515	1000	210	HVZD100/18

This vessel can also be supplied with metal jacket. Metal Jacket can be used in a maximum operating pressure of 2.0 bar g and a maximum operation temperature of 150°C.

Temperature difference between jacket & vessel should not exceed 120C.

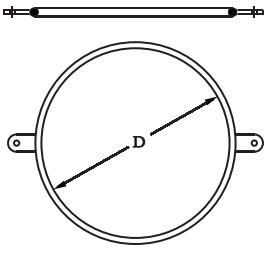
VESSEL HOLDER

Vessel holders is made of cast aluminium with a plaster lining shape to fit the vessel . Vessel holder is fitted with 3 jacking bolts.

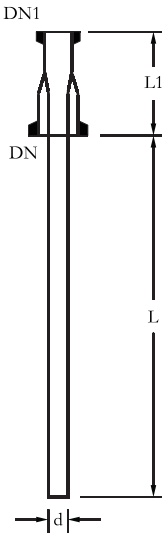


Vessel holder size wise	D MM	d MM	L MM	CAT. REF.
20L	325	230	100	HVSS20
30L	325	230	100	HVSS30
50L	390	230	100	HVSS50
100L	420	250	100	HVSS100
200L	700	400	215	HVSS200

VESSEL HOLDING RING



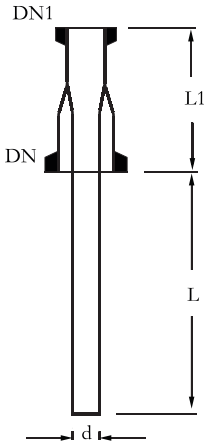
Vessel holder size wise	D mm	L mm	CAT. REF.
2 L	100	15	HVRS 2
5 L	150	15	HVRS 5
10 L	215	15	HVRS 10
20 L	300	15	HVRS 20



DIP PIPE

Dip pipe is used as liquid inlet for spherical & cylindrical vessels.

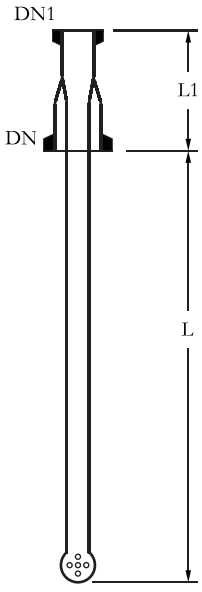
Nominal Cap. Ltr	DN MM	DN1 MM	d MM	L MM	L1 MM	CAT. REF.
20L	25	25	12	300	100	HDP20/1
50L	40	25	19	400	100	HDP50/1.5
100L	40	25	19	500	100	HDP100/1.5
200L	40	25	19	600	100	HDP200/1.5



SHORT DIP PIPE

Short dip pipe is used as re–entry tube for vessel, heat exchanger etc.

Nominal Cap. Ltr	DN MM	DN1 MM	d MM	L MM	L1 MM	CAT. REF.
20L	25	25	12	300	100	HDP20/1
50L	40	25	19	400	100	HDP50/1.5
100L	40	25	19	500	100	HDP100/1.5
200L	40	25	19	600	100	HDP200/1.5



GAS SPARGER

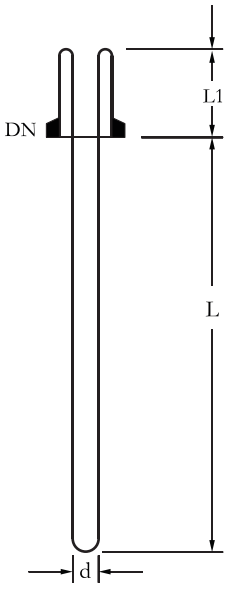
Gas sparger is used for gas feeding & sparging in vessels.

Nominal Cap. Ltr	DN MM	DN1 MM	d MM	L MM	L1 MM	No. of Holes	CAT. REF.
20L	25	25	12	300	100	5 x 1mm	HGS20/1
50L	40	25	19	400	100	5 x 1 mm	HGS50/1.5
100L	40	25	19	500	100	5 x 1 mm	HGS100/1.5
200L	40	25	19	600	100	5 x 1 mm	HGS200/1.5

THERMOMETER POCKET

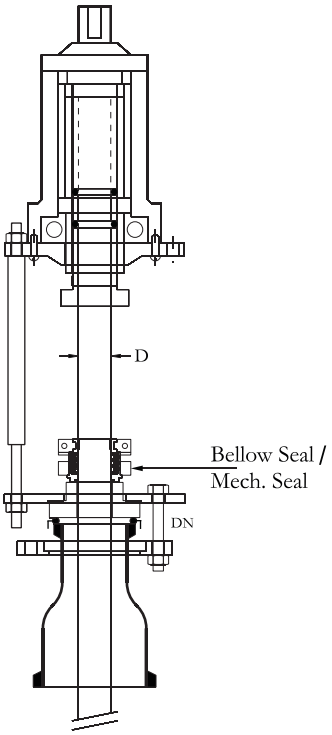
Thermometer pocket is used to put thermometer , where temperature need to be measured.

Nominal Cap. Ltr	DN MM	d MM	L MM	L1 MM	CAT. REF.
5L	25	12	150	50	HTP5/1
10L	25	12	200	50	HTP10/1
20L	25	12	300	50	HTP20/1
50L	40	19	400	50	HTP50/1.5
100L	40	19	500	50	HTP100/1.5
200L	40	19	600	50	HTP200/1.5
300L	40	19	680	50	HTP300/1.5



STIRRERS

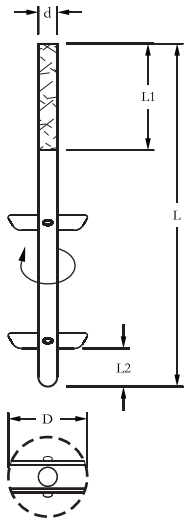
A variety of stirrers and stirrer drives are available to use glass vessel as agitated reaction equipments. Stirrer assemblies are used with spherical or cylindrical vessels and generally comprise two main components: a drive unit (including shaft seal) and a stirrer shaft.
In addition a reducer or vessels cover is normally required, to connect the top neck of the vessel to the drive unit. Variable speed drive unit can be supplied on request.



CHUCK & SEAL ASSEMBLY

This unit is suitable for use under corrosive conditions. Only GLASS & PTFE are exposed to process fluids. Bellow seal can be used under vacuum down to 10mm Hg absolute. Mechanical seal can be used under vacuum1 mm Hg absolute or under pressure permitted into glass vessels.

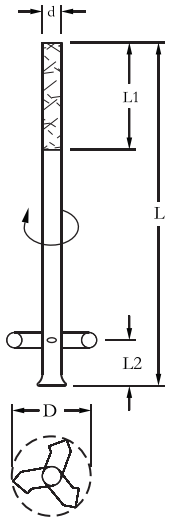
Vessel Cap. Ltr.	DN MM	D MM	CAT. REF BELLOW SEAL	CAT. REF MECH. SEAL
10L	50	24.5	HCSA1	HCSM1
20L	50	24.5	HCSA1	HCSM1
50L	50	24.5	HCSA1	HCSM1
100L	50	45.5	HCSA1.5	HCSM1.5
200L	50	45.5	HCSA1.5	HCSM1.5
300L	50	45.5	HCSA1.5	HCSM1.5



GLASS STIRRER WITH TEFLON BLADE

This stirrer is used for low viscosity fluid.

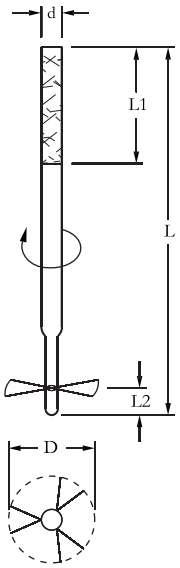
Vessel Cap. Ltr	d MM	D MM	L	L1	L2	CAT. REF
5L	24.5	40	625	350	25	HSTB5
10L	24.5	40	700	350	25	HSTB10
20L	24.5	70	800	350	25	HSTB20
50L	24.5	100	1000	350	25	HSTB50
100L	45.5	150	1200	400	30	HSTB100
200L	45.5	175	1400	400	30	HSTB200
300L	45.5	200	1500	400	30	HSTB300



VORTEX STIRRER

This stirrer is used for low viscosity fluid containing small solid particles.

Vessel Cap. Ltr	d MM	D MM	L	L1	L2	CAT. REF
5L	24.5	40	625	350	50	HSTV5
10L	24.5	40	700	350	50	HSTV10
20L	24.5	50	800	350	50	HSTV20
50L	24.5	65	1000	350	65	HSTV50
100L	45.5	65	1200	400	65	HSTV100
200L	45.5	105	1400	400	65	HSTV200
300L	45.5	105	1500	400	65	HSTV300



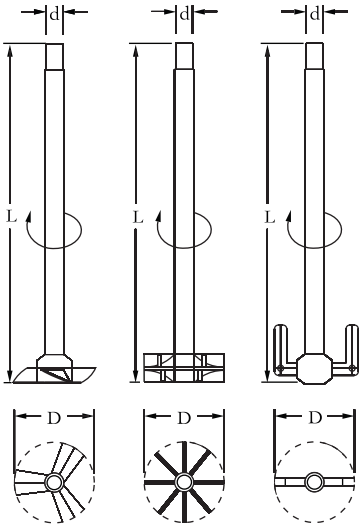
PROPELLER STIRRER

This stirrer is used for high viscosity fluid containing big solid particles.

Vessel Cap. Ltr	d MM	D MM	L	L1	L2	CAT. REF
5L	24.5	40	625	350	50	HSTP5
10L	24.5	40	700	350	50	HSTP10
20L	24.5	50	800	350	50	HSTP20
50L	24.5	65	1000	350	65	HSTP50
100L	45.5	65	1200	400	65	HSTP100
200L	45.5	105	1400	400	65	HSTP200
300L	45.5	105	1500	400	65	HSTP300

PTFE STIRRER

This stirrer produces axial primary flow with a radial component and is particularly suitable for homogenisation and suspension. It is also suitable for general stirring duties with simultaneous heat transfer (heating or cooling) between the liquid being stirred and the vessel wall. It can also be used for dispersion (including from gases) and emulsification. This stirrer is available in three combinations (like Propeller /Turbine/Anchor type).

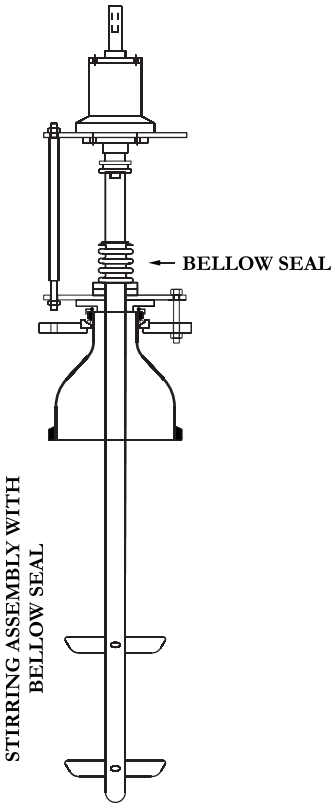


L	d	D	Cat. Ref.
700	45	150	HSPT150/700
800	45	150	HSPT150/800
1100	45	150	HSPT150/1100
1350	45	200	HSPT200/1350

STIRRING ASSEMBLY WITH BELLOW SEAL

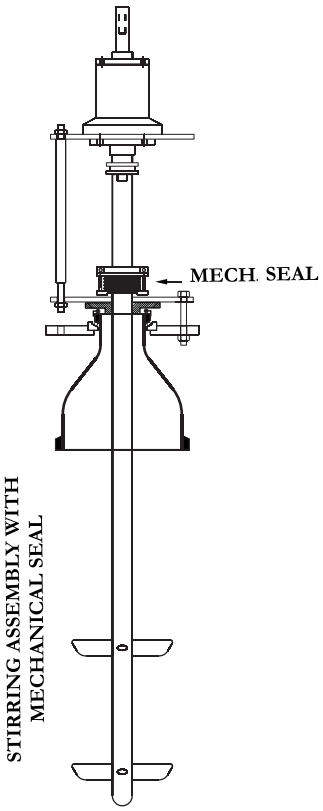
A stirrer is assembled in chuck with bellow seal and appropriate reducer. This assembly is convenient to install on a vessel . This assembly mainly consists of :

A. Glass Stirrer (HSTB/ HSTV/ HSTP)
B. Chuck and seal. (HSCA)
C. Glass Reducer (HPR)



STIRRER

Vessel Cap. Ltr.	Stripper Used	Chuck & Seal Used	Reducer Used	CAT. REF.
10L	HSTB10	HCSA1		HSTBA10
20L	HSTB20	HCSA1	HPR3/2	HSTBA20
50L	HSTB50	HCSA1	HPR4/2	HSTBA50
100L	HSTB100	HCSA1.5	HPR6/3	HSTBA100
200L	HSTB200	HCSA1.5	HPR9/3	HSTBA200
300L	HSTB300	HCSA1.5	HPR12/3	HSTBA300
10L	HSTV10	HCSA1	-	HSTVA10
20L	HSTV20	HCSA1	HPR3/2	HSTVA20
50L	HSTV50	HCSA1	HPR4/2	HSTVA50
100L	HSTV100	HCSA1.5	HPR6/3	HSTVA100
200L	HSTV200	HCSA1.5	HPR9/3	HSTVA200
300L	HSTV300	HCSA1.5	HPR12/3	HSTVA300
10L	HSTP10	HCSA1	-	HSTPA10
20L	HSTP20	HCSA1	HPR3/2	HSTPA20
50L	HSTP50	HCSA1	HPR4/2	HSTPA50
100L	HSTP100	HCSA1.5	HPR6/3	HSTPA100
200L	HSTP200	HCSA1.5	HPR9/3	HSTPA200
300L	HSTP300	HCSA1.5	HPR12/3	HSTPA300



STIRRER ASSEMBLY WITH MECHANICAL SEAL

A stirrer is assembled in chuck with mechanical seal and appropriate reducer. This assembly is convenient to install on a vessel .

The assembly consists of :

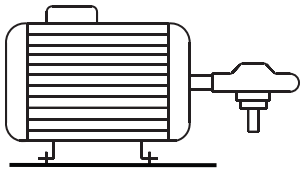
A. Glass Stirrer (HSTB/ HSTV/ HSTP)
B. Chuck and mechanical seal (HSCA)
C. Glass Reducer (HPR)

STIRRER

Vessel Cap. Ltr.	Stripper Used	Check & Seal Used	Reducer User	CAT. REF.
10L	HSTB10	HCSA1	-	HSTBM10
20L	HSTB20	HCSA1	HPR3/2	HSTBM20
50L	HSTB50	HCSA1	HPR4/2	HSTBM50
100L	HSTB100	HCSA1.5	HPR6/3	HSTBM100
200L	HSTB200	HCSA1.5	HPR9/3	HSTBM200
300L	HSTB300	HCSA1.5	HPR12/3	HSTBM300
10L	HSTV10	HCSA1	-	HSTVM10
20L	HSTV20	HCSA1	HPR3/2	HSTVM20
50L	HSTV50	HCSA1	HPR4/2	HSTVM50
100L	HSTV100	HCSA1.5	HPR6/3	HSTVM100
200L	HSTV200	HCSA1.5	HPR9/3	HSTVM200
300L	HSTV300	HCSA1.5	HPR12/3	HSTVM300
10L	HSTP10	HCSA1	-	HSTPM10
20L	HSTP20	HCSA1	HPR3/2	HSTPM20
50L	HSTP50	HCSA1	HPR4/2	HSTPM50
100L	HSTP100	HCSA1.5	HPR6/3	HSTPM100
200L	HSTP200	HCSA1.5	HPR9/3	HSTPM200
300L	HSTP300	HCSA1.5	HPR12/3	HSTPM300

STIRRER DRIVE MOTOR (NON- FLAME PROOF)

A 1400 RPM 3 Phase non-flameproof motor with built-in gear is supplied along with a flexible shaft. A motor coupling to couple the flexible shaft to motor is also provided. Other end of the flexible shaft is to be fitted into the chuck.

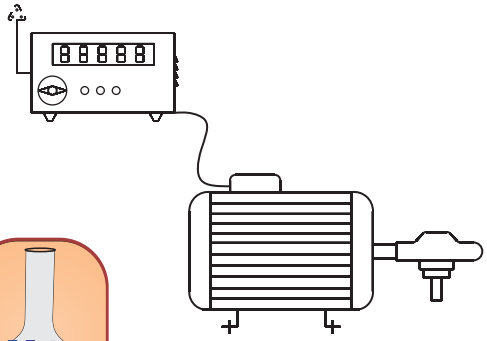


HP	SPEED RPM	Cat. Ref.
0.25	190	HRSD 0.25
0.5	195	HRSD 0.5
1.0	195	HRSD 1

This motor is also available in FLAME PROOF

SPEED VARIATOR (Drive)

3 Phase non-flame proof regulators are available to control the speed of stirrer drives.



Type	Phase	Cat. Ref.
0.25	190	HFSD0.25
0.5	195	HFSD0.5
1.0	195	HFSD 1

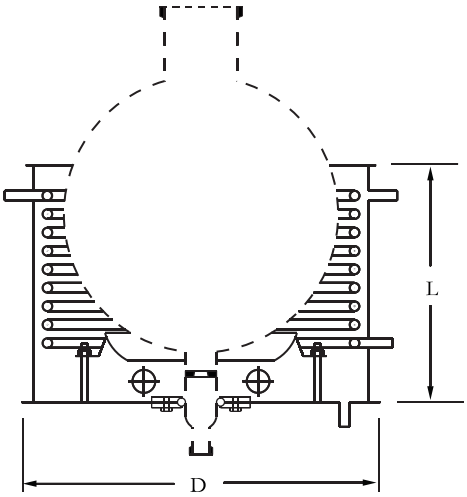
BATHS

HEATING BATH WITH COIL & HEATER

M. S. Heating bath is used for electrical or steam heating of glass vessels. Depending upon the temperature requirements, different types of thermic fluids oil or water can be used as heating media. Heating bath is provided with a pair of NON flame proof heaters with digital controller box, M.S coil for passing the steam or cooling water, cushioned vessel holding ring, a bottom outlet sealing arrangement, a lid and threaded socket type inlets and outlets.

Vessel Cap. Ltr.	D MM	L MM	POWER (kW)	CAT. REF.
5L	325	225	2 kW (2 x 1000)	HBH5
10L	350	250	2 kW (2 x 1000)	HBH10
20L	480	340	3 kW (3 x 1500)	HBH20
50L	615	415	4 kW (2 x 2000)	HBH50
100L	720	535	6 kW (2 x 3000)	HBH100
200L	900	620	8 kW (2 x 4000)	HBH200

* S.S. Heating bath can be supplied on request . This should be specified during inquiry stage
* S.S. / Copper coil can be supplied on request . This should be specified during inquiry stage.



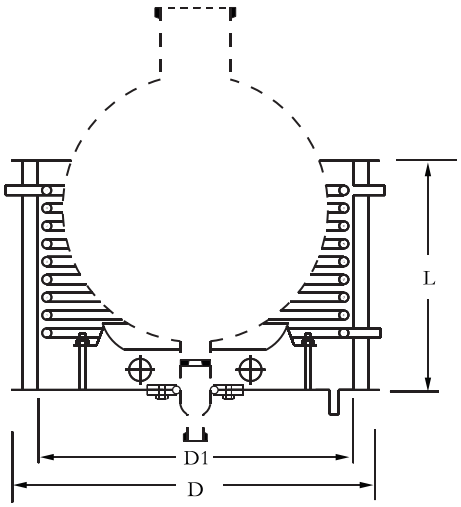
HEATING BATH JACKETED WITH COIL & HEATER

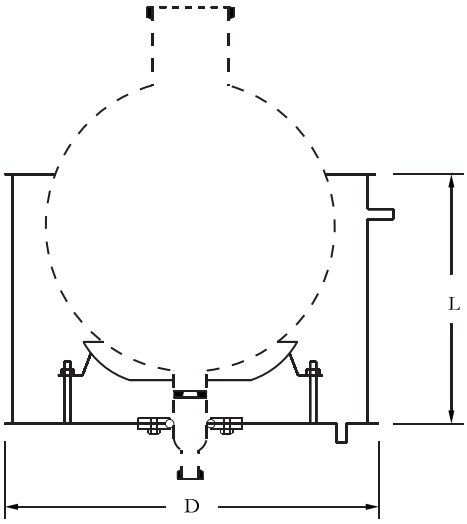
M.S. Jacketed Heating bath is provided with a coil inside to circulate either steam or heat transfer fluid depending upon the application . Provision for placing a electrical heater is also kept .

(Non Flame proof)- Heater can also be provided along with the bath on request . Although the standard heating bath is specifically designed for spherical vessel , similar bath for cylindrical vessel can also be supplied on special order. This heating bath can be fitted with suitable temperature control equipments if required.

VESSEL CAP. LTR.	D MM	D1 MM	L MM	POWER (kW)	CAT. REF.
5L	395	325	260	2 kW (2 x 1000)	HBHD5
10L	420	350	285	2 kW (2 x 1000)	HBHD10
20L	550	480	365	3 kW (3 x 1500)	HBHD20
50L	685	615	465	4 kW (2 x 2000)	HBHD50
100L	830	720	560	6 kW (2 x 3000)	HBHD100
200L	1050	900	680	8 kW (2 x 4000)	HBHD200

* S.S. Heating bath can be supplied on request . This should be specified during inquiry stage.
* S.S. / Copper coil can be supplied on request . This should be specified during inquiry stage.





COOLING BATH

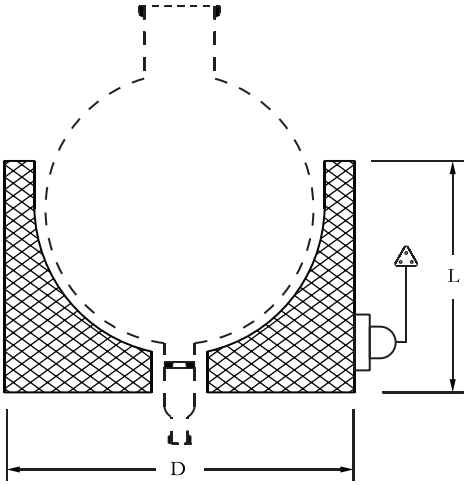
Cooling bath is used for cooling the glass vessel with ice crystals. Cooling bath is provided with cushioned vessel holding ring, a bottom outlet sealing arrangement and a lid.

Vessel Cap. Ltr.	D MM	L MM	CAT. REF.
5L	325	225	HBHC5
10L	350	250	HBHC10
20L	480	330	HBHC20
50L	615	415	HBHC50
100L	720	535	HBHC100
200L	900	620	HBHC200

HEATING MANTLE

As an alternative to heating bath, electric heating mantle can also be supplied for spherical & cylindrical vessels. It's heating power varies according to the nominal capacity of the vessel involved.

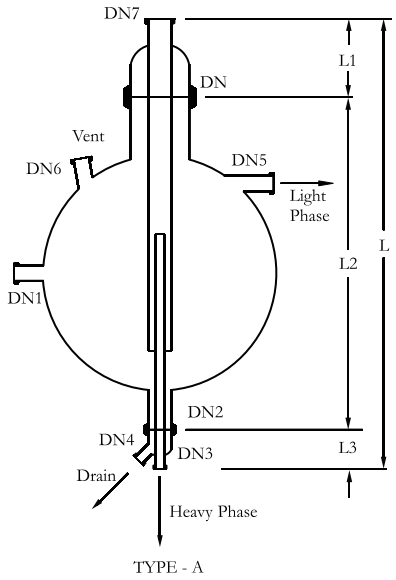
This heating mantle is sub-divided into several heating zones each of which is equipped with a temperature probe so that the surface temperature of the vessel can be monitored. This work in conjunction with the control unit includes in the supply to prevent local hot spots occurring. The control unit also includes energy regulators , which can be used to control the heat input separately for each heating zone depending on the liquid level.



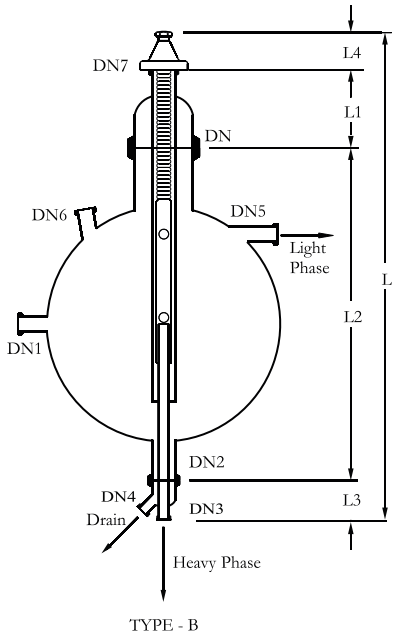
Vessel Cap. Ltr	D MM	L MM	ELEC. SUPPLY	CIRCUTS	POWER (kW)	CAT. REF.
5L	-	260	230V	1	0.6 kW (1 x 600)	HJMD5
10L	-	285	230V	3	1.0 kW (2 x 500)	HJMD10
20L	550	365	230V	3	1.5 kW (3 x 500)	HJMD20
50L	685	465	440V	3	3.6 kW (4 x 900)	HJMD50
100L	830	560	440V	3	5.4 kW (6 x 900)	HJMD100
200L	1050	680	440V	6	8.0 kW (8 x 1000)	HJMD200

Notes :

1. Powder coating / S.S. Heating bath can be supplied on request . This should be specified during inquiry stage.
2. S.S/ Copper coil can be supplied on request . This should be specified during inquiry stage.
3. In all cases , electrical supply should be specified when ordering . All heating mantles are non-flame proof type. Flame proof heating mantle can be supplied on request.



TYPE - A



TYPE - B

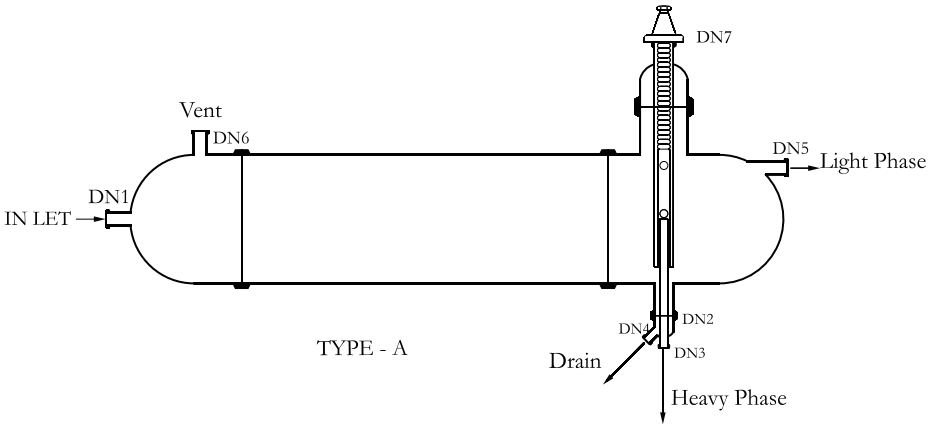
DECANTOR (SEPARATOR)

Decantation is a process of separation of two immiscible liquids, having different densities. When these liquids are allowed to settle, two distinct layers are formed, heavier at bottom and lighter at top. This is a decantor which is suitable for continuous decantation .The mixture of liquids is continuously feed in the decantor at low velocity. This allows sufficient residence time for the formation of separate layers. The light phase liquid is continuously removed from the light phase outlet at the top. The heavy phase liquid enters the dip pipe at lower and overflow in the discharge pipe and is removed from the bottom.

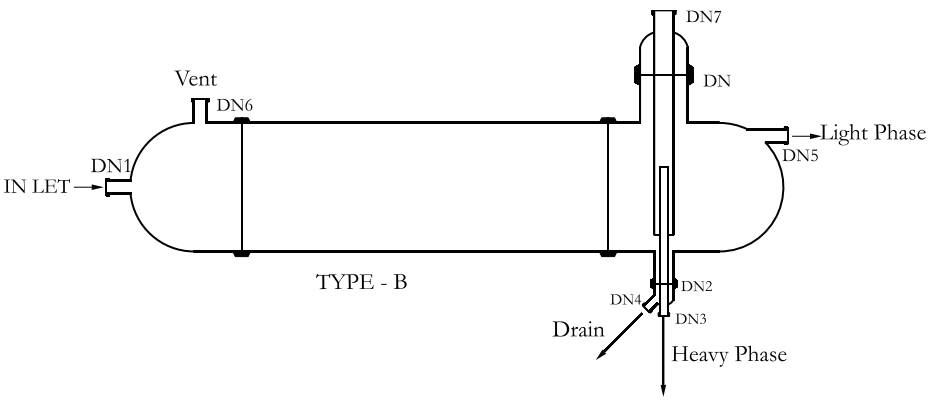
This decantor provides continuous separation, visual monitoring, and ensures separation even after feeding is stopped. Decantor can be provided with adjustable overflow valve, (Type B) to adjust the position of interface for different operating situations

Nom. Cap.	DN	DN1	DN2	DN3	DN4	DN5	DN6	DN7	L	L1	L2	L3	L4	Type	Cat. Ref.
20L	80	25	50	25	25	25	25	50	800	125	525	150	-	A	HSPS20
50L	100	40	50	25	25	40	40	50	1025	150	725	150	-	A	HSPS50
100L	150	40	50	25	25	40	40	50	1175	200	825	150	-	A	HSPS100
200L	225	40	50	25	25	40	40	50	1475	250	1075	150	-	A	HSPS200
20L	80	25	50	25	25	25	25	50	1000	125	525	150	200	B	HSPA20
50L	100	40	50	25	25	40	40	50	1225	150	725	150	200	B	HSPA50
100L	150	40	50	25	25	40	40	50	1375	200	825	150	200	B	HSPA100
200L	225	40	50	25	25	40	40	50	1675	250	1075	150	200	B	HSPA200

Decantor can be constructed with horizontal cylindrical vessels and to provide larger separating surface



TYPE - A



TYPE - B

HG

H onesty

E fficiency

T ransparency

A mbitions

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