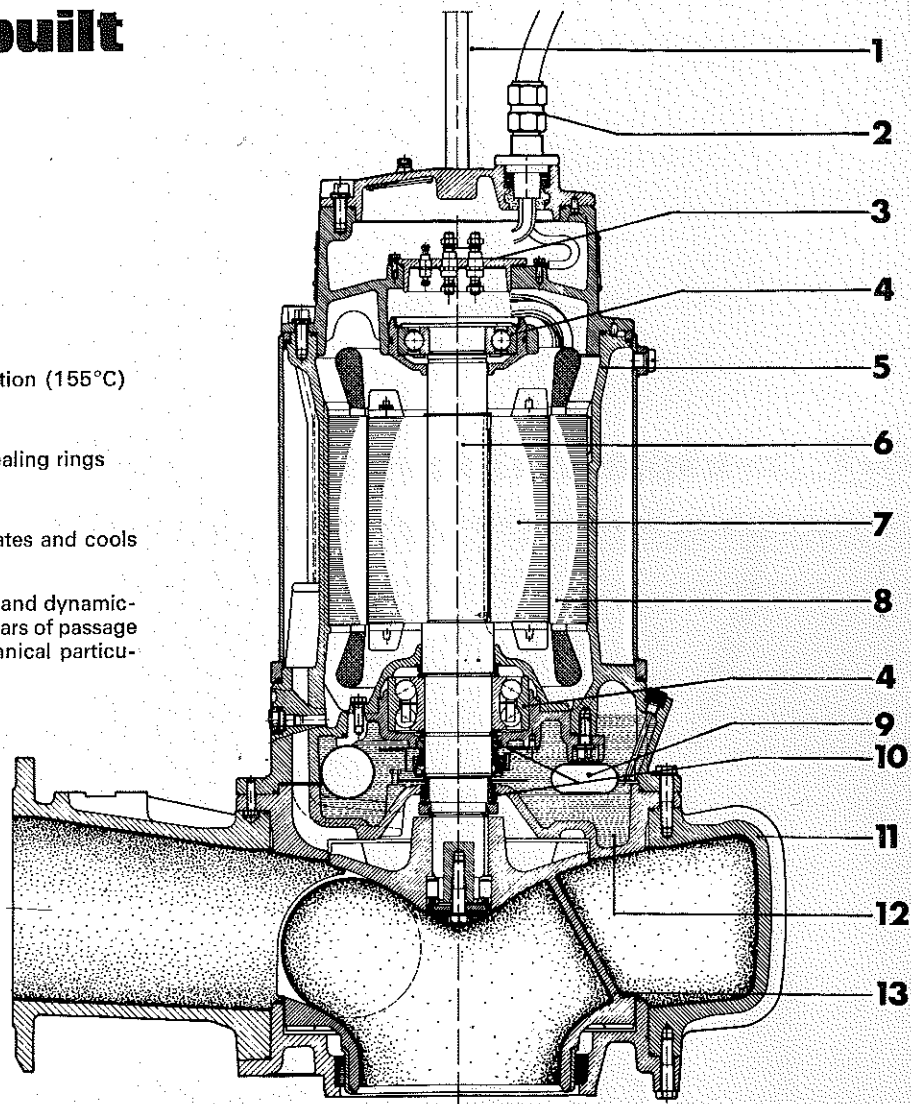


How it's built

1. Carrying handle
2. Cable entry
3. Terminal board
4. Ball bearing
5. Stator housing
6. Shaft
7. Rotor
8. Stator with class F insulation (155°C)
9. Oil pressure equalizer
10. Shaft seal with double sealing rings
11. Pump housing
12. Oil casing. The oil lubricates and cools the seals
13. Pump impeller. Statically and dynamically balanced. For particulars of passage dimensions, see the Technical particulars.



Types

Two types of the 3300 are available and these are designated the CP and CS. In addition, each type is available in three versions designated the LT (low head), MT (medium head) and HT (high head).

Explosion proof sewage pumps

Virtually the whole range of the well proved Flygt CP/CS sewage pumps are now available in an explosion proof form. They are certified in accordance with BS4683 parts 1 and 2 which cover all the hazard gases listed in Group IIA.

Whilst these pumps have been designed to conform with all anticipated legislation concerning the installation of explosion proof pumps in sewage pumping stations and on sewage works, etc., they may in addition be successfully applied in industrial applications in the oil, chemical and related industries where hazard gases covered by the above standards are likely to exist.

The electric motor is protected by thermal switches in the top of the stator windings which automatically stop the motor in the event of over-heating, due either to phase failure, overloading or a drop in the supply voltage.

The same installation arrangements are adopted for these explosion proof versions as for the long established standard Flygt sewage pump range and we are thus able to offer the same overall company service embracing scheme design, equipment supply, installation, commissioning and contract maintenance together with a full technical back-up.

Types

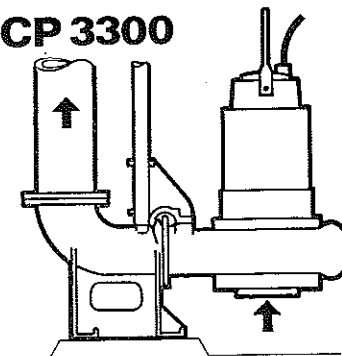
The CP 3300 is a stationary sewage pump designed to operate partly or completely submerged. The pump unit can be easily lifted from the sump for inspection, without unbolting any connections.

The discharge connection, bolted down to the sump base, is provided with a flange which mates with the flange on the pump casing. When the pump is lowered into the

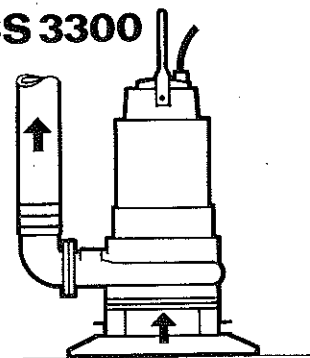
sump, it will slide down the guide rails and seat automatically onto the discharge connection. The weight of the pump forces the flanges into contact with each other, thus providing a perfect seal.

The CS 3300 is a transportable and submersible sewage pump. The pump housing can be supplied with a discharge connection for hose or pipes. The CS pump is suitable for pumping viscous sludge, cleaning of tanks, etc.

CP 3300



CS 3300



Impeller Throughway MM

PUMP TYPE	CURVE No.	NUMBER OF CHANNELS	IMPELLER THROUGHWAY
LT	612	2	146×180
LT	614	2	132×170
LT	616	2	125×160
LT	812	2	146×180
LT	814	2	132×170
MT	632	1	190 dia.
MT	636	1	176×180
MT	638	1	150×180
MT	640	1	134×180
MT	641	2	100×100
MT	642	2	100×100
MT	644	2	100×100
MT	646	2	100×100
MT	648	2	100×100
HT	452	1	90×96
HT	454	1	80×90

Maximum Efficiencies

CURVE No.	MAXIMUM EFFICIENCIES	
	Pump%	Overall%
612	70	62
614	74	66
616	68	61
812	73	64
814	72	61
632	71	63
636	61	54
638	59	52
640	50	44
641	82	73
642	80	72
644	77	68
646	71	63
648	64	55
452	66	59
454	60	53

Current Rating (amps)

VOLTAGE	LT						MT						HT			
	612	614	616	812	814	632	636	638	640	641	642	644	646	648	452	454
380	83	62	53	40	32	81	66	51	43	83	67	55	45	39	105	74
415	76	57	49	37	29	74	60	47	39	76	61	50	41	36	96	68
500	63	47	40	30	24	62	50	39	33	63	51	42	34	30	80	56
550	57	43	36	27	22	56	46	35	30	57	46	38	31	27	73	51

Advantages of the Flygt automatic sewage pumping station

Low installation costs The sump can be built of standard components. No parts need be specially ordered. Space requirements are modest – hence excavation work is reduced.

Saves space The pumping station may be located virtually anywhere, without stealing valuable floor or ground space. Wherever it is – under a warehouse floor or a busy corridor, or beneath the street – the station is unnoticeable and the inspection covers withstand traffic loads.

Easy to inspect The pump can be hoisted up for inspection with no trouble at all. Nobody needs to enter the sump, since there are no bolts to unscrew, and the sump need not be drained. Generally the only inspection required is a simple oil check once a year.

Reliable Once installed, the pump looks after itself. Automatic controls stop and start the pump or pumps as required to cope with the flow and give a warning if any defect arises. There are no stuffing boxes to adjust. The ball bearings are prepacked with grease and need no attention until after about two to three years' operation.

Motor cooling system The CP 3300 can run safely regardless of the level of the sewage water. The cooling system ensures that the stator is always surrounded by cooling water.

Accessories for the CP 3300

For a complete station additional parts are required as follows: Access frame with cover plate and upper guide rail brackets. Cable holder to secure the cables and allow for adjustment. Discharge connection with the lower guide rail bracket. Automatic control equipment and level regulators are required for the automatic operation of the pumps.

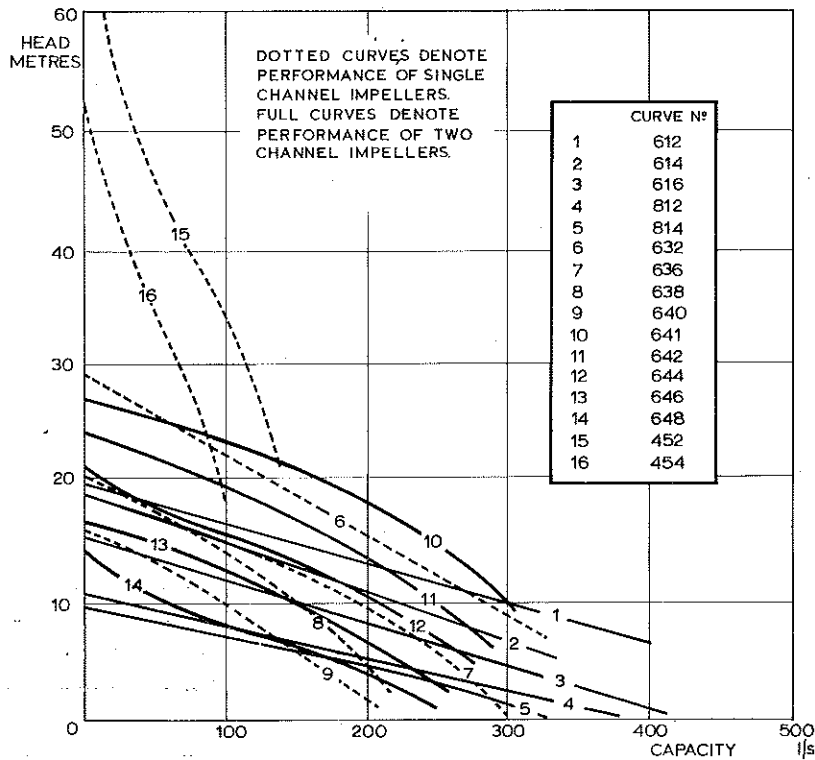
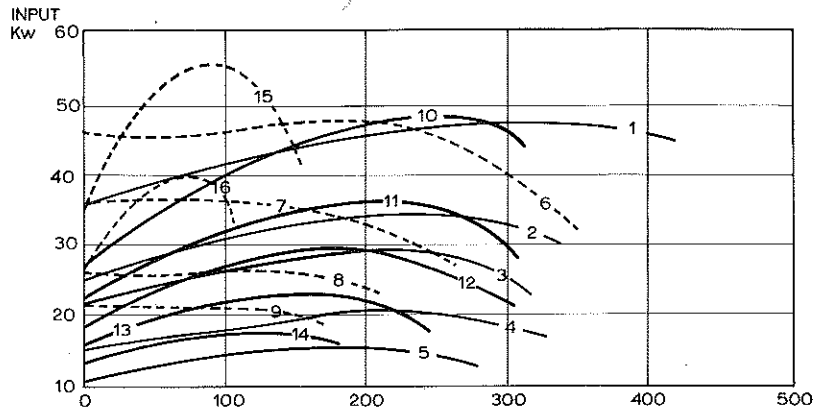
Technical particulars

Discharge sizes	Nominal bore of discharge, mm		
Pump	LT	MT	HT
CP 3300	350	300	200
CS 3300	300a)	250a)	200b)
a) Flanged connection.		b) Hose connection	

Motor Three-phase squirrel-cage A.C. motor for 50 Hz supply.
 CP 3300 LT: 44 kW (60 hp) at 970 rpm; 20 kW (27 hp) at 730 rpm.
 CP 3300 MT: 44 kW (60 hp) at 970 rpm.
 CP 3300 HT: 54 kW (73 hp) at 1470 rpm

Weight, kg	LT	MT	HT
CP 3300 Pump unit	1090	1120	930
Discharge connection	200	165	62
CS 3300 Pump unit complete	1160	1190	1027

FP. CS 3000



Each pump is tested in accordance with an ISO standard for batch-produced Class C pumps. For full details see ISO 2548.
Approval BS4683 Part 2 **BASEEFA No. Ex 75105**

The manufacturers reserve the right to alter performance specification or design without notice.

Distributors in Ireland, Channel Isles and Malta



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