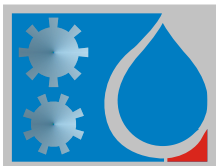


SANITARY CENTRIFUGAL PUMPS

SERIES CL - CLC



IDMC
L I M I T E D

Application :

IDMC centrifugal pumps are built to sanitary design for applications in dairy, food, pharmaceutical, beverages, brewery, cosmetics, personal health care and allied industries and designed to pump liquids gently and efficiently. The pumps also find application in chemical and other industries where liquid to be pumped requires acid resistant product contact parts.

Standard Features :

Monobloc design, manufactured with all liquid contact parts in SS 316 fitted with single internal mechanical seal with different face combination, adjustable ball feet, SMS ports and stainless steel motor shroud.

For mobile applications, the pumps are offered with stainless steel trolley having caster wheels.

The pumps are available in open or closed impeller construction.

Open Impeller Pumps (Type CL)

Having three backward turned vanes that are wide apart to

ensure gentle handling of the products. The wider space between impeller vanes allows passing through of products with suspended particles. This makes the pumps suitable for transferring cream, ice cream and wine etc.

Closed Impeller Pumps (Type CLC)

Having six backward turned vanes to optimize the hydraulic efficiency. This makes the pumps suitable to transfer the liquid gently without churning at medium-high pressure. The application covers a wide range of liquid food like juice, milk, water, CIP, WFI, beer, sugar syrup, carbonated beverages, wine etc.

Motors :

Supplied with 2/4 pole, three phase, 415 volts, 50 Hz motor having class "F" insulation and IP 55 protection. Other voltage and frequency options are available on request. CL / CLC 40-2-1.5, CL 30-2-1.5 pumps are available

with single phase, 230 volts, 50 Hz motors.

Pumps with four pole motors are provided with monolith SS 316 shafts in meeting with the requirement of sanitary standards. Pumps with two pole motors have EN8 shaft friction welded to the SS 316 shaft up to medium range. For higher range TIG welding is used to connect the shafts of motor (EN8) and pump (AISI 316).

Optional :

The pumps can also be supplied with following options as per customer specific requirements:

- ? Flame Proof motor
- ? Tri clamp, IDF, DIN, Flanged ports
- ? Electro polishing of liquid contact parts
- ? Various seal face combinations and executions
- ? Various port sizes
- ? Impeller with reduced diameter

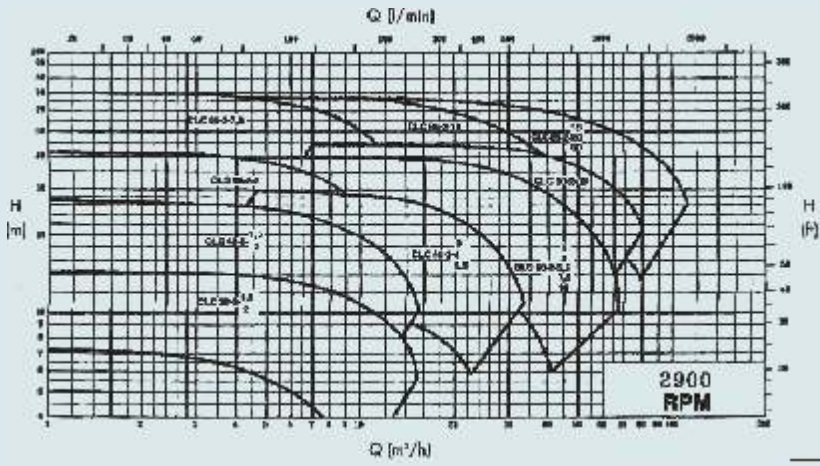


W - EXECUTION PUMP



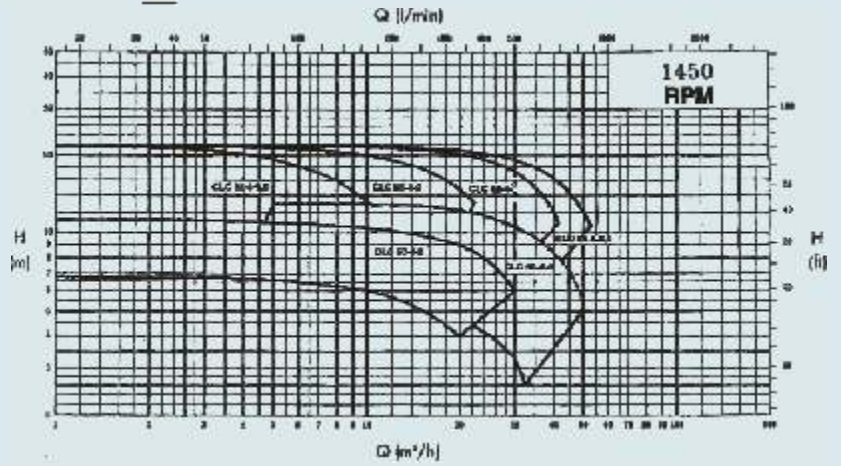
FLAME PROOF MOTOR PUMP

FAMILY CURVES :

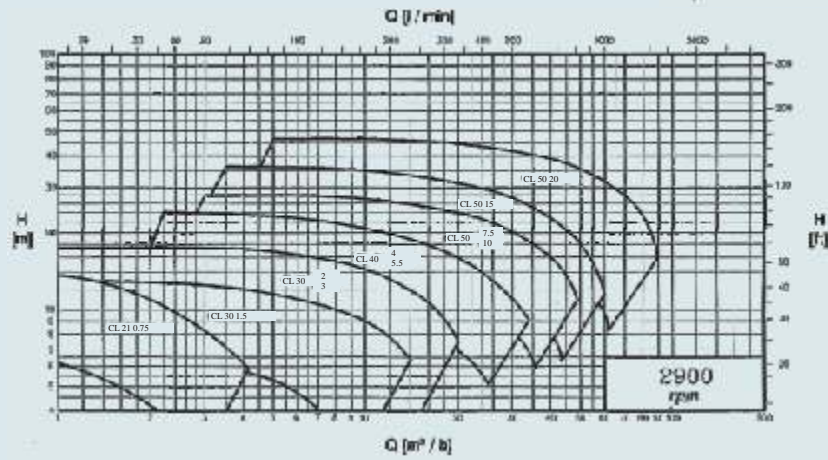


CLC 2900 RPM

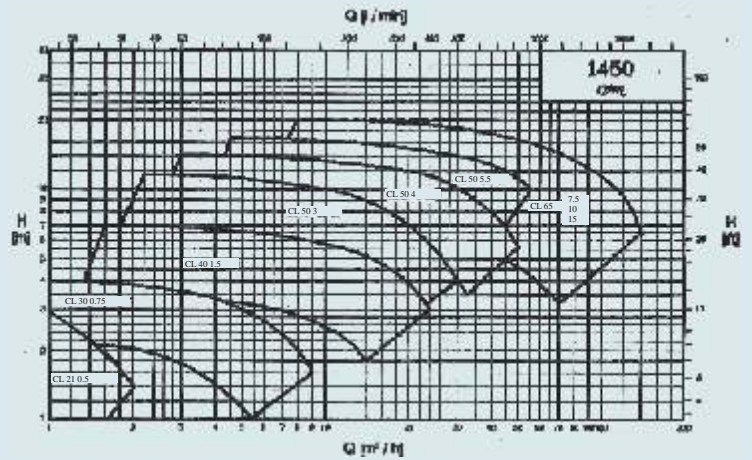
CLC 1450 RPM



CL 2900 RPM



CL 1450 RPM



IMPELLERS :

Impellers, both closed and open, have got backward turned blades, designed to optimize the hydraulic efficiency.



Open



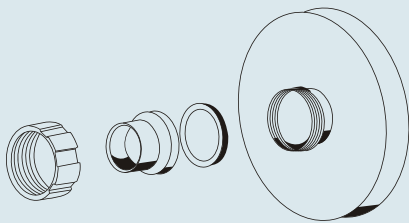
Closed in 2 pieces



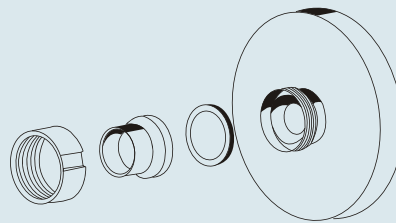
Closed

PORTS :

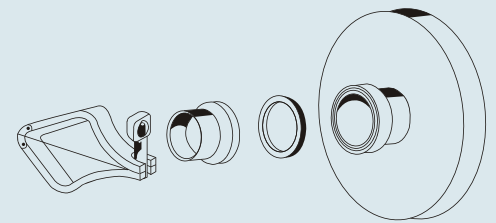
The standard version available with SMS ports. On request, other types of connections as special executions can be supplied.



SMS

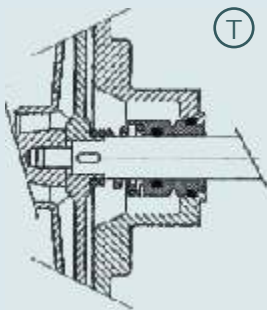


DIN



TRI-CLAMP

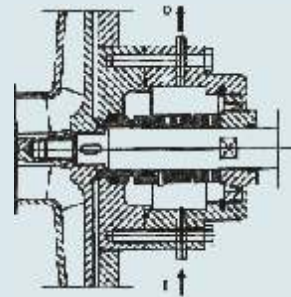
SEALS :



(T)

Internal Mechanical Seal :

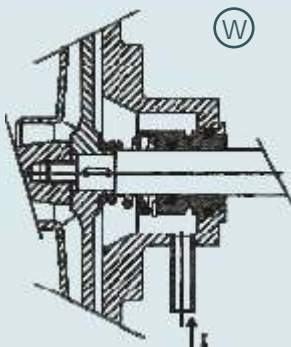
In this execution, the pumping liquid itself works as coolant. Pump is having the conical cavity near the mechanical seal in order to allow the free entry of the liquid. Conical spring seal / bellow seal with various face combinations are available.



(U)

Double Seal :

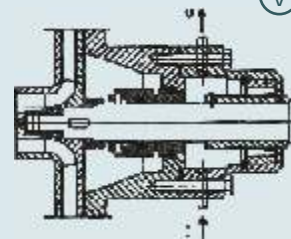
It consists of one No. outside mounted mechanical seal with one No. lip seal. In this execution, the pump requires external cooling liquid (water) continuously. It is especially suitable in pumping glues, gelatins, syrups subject to crystallization and that adheres seal faces.



(W)

Internal Mechanical Seal with Liquid Circulation :

While pumping heated liquids, it induces a forced liquid circulation in the area around the seal. It ensures the liquid film between the seal faces.

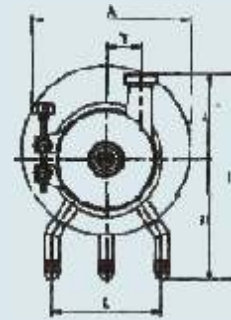
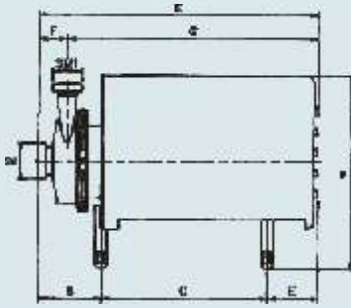


(V)

Flushed Internal Mechanical Seal :

It consists of one external chamber. It also requires the water continuously. In case the mechanical seal leaks, the leakage liquid will be taken away from the pump site. It is exclusively used for the pharmaceutical application for the sterile area.

DIMENSIONS (CL - CLC TYPE)



TYPE	POLE	HP	SM	SM1	A	B	C	E	F	G	K	H	J	I	L	P	Y	WT KG
CL 21	4	0.5	38	38	158	145	90	121	53	303	356	150	90	240	112	280	-	1.5
CL 30	4	0.75	38	38	234	118	195	147	51	409	460	210	125	335	174	285	35	21.5
CL 40	4	1.5	51	38	298	133	210	127	62	408	470	210	150	360	194	330	60	32
CL 50	4	4	76	51	328	150	280	120	72	478	550	260	180	440	194	365	80	56.5
CL 50	4	5.5	76	63	328	150	280	120	72	478	550	260	180	440	194	365	80	61
CL 65	4	7.5	101	76	395	205	215	190	100	510	610	290	263	553	330	497	80	101
CL 65	4	10	101	76	395	205	260	145	100	510	610	290	263	553	330	497	80	114
CL 65	4	15	101	76	395	205	340	65	100	510	610	290	220	510	330	497	80	147
CLC 50	4	4	76	76	328	150	280	120	72	478	550	260	180	440	194	365	80	57
CLC 65	4	1.5	51	38	370	156	170	169	90	405	495	260	220	480	194	361	110	40
CLC 65	4	2	51	38	370	156	196	143	90	405	495	260	220	480	194	361	110	44
CLC 65	4	3	51	38	370	127	227	182	61	475	536	260	220	480	194	103	54	54
CLC 65	4	4	76	51	370	127	217	192	61	475	536	260	220	480	194	361	103	62
CLC 65	4	5.5	76	51	370	127	256	153	61	475	536	260	220	480	194	361	103	73

CL 21	2	0.75	38	38	158	145	90	121	53	303	356	150	90	240	112	280	-	15
CL 30	2	1.5	38	38	234	118	205	137	50	410	460	210	125	335	174	285	35	24
CL 30	2	2	38	38	234	118	205	137	50	410	460	210	125	335	174	285	35	25.5
CL 30	2	3	38	38	234	118	235	102	51	404	455	210	125	335	174	285	35	28.5
CL 40	2	4	51	38	298	133	280	127	62	478	540	210	150	360	194	330	60	42
CL 40	2	5.5	51	38	298	133	290	117	62	478	540	210	150	360	194	330	60	50
CL 50	2	7.5	76	51	353	160	285	165	68	542	610	260	180	440	265	420	80	85
CL 50	2	10	76	51	353	160	285	165	68	542	610	260	180	440	265	420	80	92
CL 50	2	15	76	51	353	160	310	140	68	542	610	260	180	440	265	420	80	126
CL 50	2	20	76	76	353	182	310	140	76	556	632	260	180	440	265	420	70	135
CLC 30	2	1.5	38	38	234	118	205	137	50	410	460	210	125	335	174	285	40	23
CLC 30	2	2	38	38	234	118	205	137	50	410	460	210	125	335	174	285	40	26
CLC 40	2	1.5	51	38	298	120	215	130	56	409	465	210	150	360	194	330	60	30
CLC 40	2	2	51	38	298	133	240	152	62	453	525	210	150	360	194	330	60	34
CLC 40	2	3	51	38	298	133	240	152	62	463	525	210	150	360	194	330	60	36.5
CLC 40	2	4	51	38	395	133	280	127	62	478	540	210	150	360	194	330	60	44
CLC 40	2	4	51	38	298	133	280	127	62	478	540	210	150	360	194	330	60	44
CLC 40	2	5.5	51	38	328	133	290	117	62	478	540	210	150	360	194	330	60	44.5
CLC 50	2	2	38	38	328	135	230	105	61	409	470	210	160	370	194	340	80	39
CLC 50	2	3	38	38	328	135	230	105	61	409	470	210	160	370	194	340	80	39
CLC 50	2	4	38	38	328	140	255	85	63	417	480	210	160	370	194	340	80	46
CLC 50	2	5.5	51	51	328	150	295	105	67	483	550	260	180	440	265	365	80	56
CLC 50	2	7.5	76	51	353	170	285	165	72	548	620	260	180	440	265	420	80	87.5
CLC 50	2	10	76	51	353	170	285	165	72	548	620	260	180	440	265	420	80	94
CLC 50	2	15	76	76	353	170	310	140	74	546	620	260	200	460	265	420	70	128
CLC 65	2	7.5	51	38	370	156	250	165	90	480	571	260	220	480	265	407	110	73
CLC 65	2	10	76	51	395	158	285	257	45	655	700	290	200	490	330	497	80	109
CLC 65	2	15	76	51	395	158	310	232	45	655	700	290	200	490	330	497	80	134
CLC 65	2	20	76	51	395	158	330	212	45	655	700	290	200	490	330	497	80	150
CLC 65	2	30	101	76	395	158	330	212	45	655	700	290	200	490	330	497	80	150

Dimensions for pumps with inlet / outlet in SMS connection.



CNC TURNING CENTER



VERTICAL MACHINING CENTER



COMPONENTS



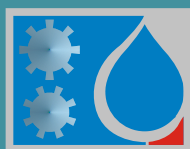
BALANCING MACHINE

Please specify the following details in your enquiry for the pump to enable us to provide correct solution for your requirement.

- ? Port connection type (SMS, DIN, IDF etc.)
- ? Motor type (2 Pole / 4 Pole)
- ? Operating voltage (415, 380, 220)
- ? Frequency (50Hz, 60Hz)
- ? Capacity (flow rate)
- ? Head
- ? Temperature
- ? Specific gravity
- ? Viscosity
- ? Any other specific requirement



COMPUTERISED PUMP TEST BED



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L I M I T E D

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