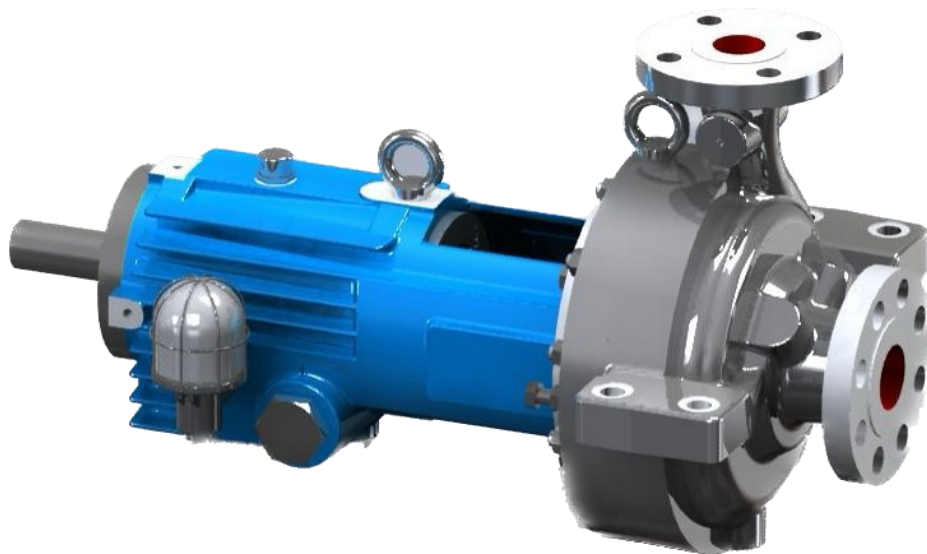


BROCHURE OGH SERIES

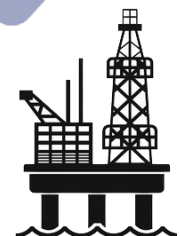
BIRAGHI POMPE 1906



- ITALIAN QUALITY
- SINCE 1906

API 610 Horizontal Process Pumps

2024



OGH SERIES—BIRAGHI POMPE 1906

OGH PROCESS PUMP

General Description

The OGH process pumps are horizontally mounted, radial split case, single stage, single suction, heavy-duty centrifugal process pumps. They are designed for continuous duty, pumping various fluids, with a combination of mechanical and installation features for applications in petroleum, petrochemical, and industrial products service. Some of these features are described in the paragraphs that follow. The OGH pump is designed for full compliance with the API 610, 12th edition, and API 682.

Additional construction features of the OGH are as follows

- (a) Seal chamber designed to API 610 and API 682 standards.
- (b) The impeller is keyed to the shaft and locked with cap nut.
- (c) Bearing bracket is furnished with extra large cooling fins for air cooling with optional water or fan cooling. The fan cooling range is 120 C° to 260 C°. Water cooling range is 260 C°. F and above. Oil mist or purge mist lube is optional.

AUXILIARY CONNECTIONS

Pumps are self-venting, and are stocked without vent taps. Vent taps can be drilled and tapped if required and specified. Vents will be 1/2" NPT on 3" and smaller discharge sizes, and 3/4" NPT on 4" and larger discharge sizes. Standard stock cases are drilled and tapped for drain holes and seal recirculation lines, and shipped with a plug of the same material in the case. 1" through 3" discharge sizes have 1/2"NPT; 4" and larger discharge sizes have 3/4" NPT drains.

FEATURES DESIGN—PUMP CASE

The pump case has centerline support feet integrally cast with the case for equal thermal expansion or contraction. This minimizes alignment problems caused by case movement due to temperature differences between operating and ambient conditions.

Sizes 1 " through 3" discharge nozzles are single volute, 4" and above discharge nozzles are double volute.

Standard construction features of the OGH pump case are as follows:

- ⇒ Steel case with a 63 Bar hydrotest.
- ⇒ Rabbet fit for cover.
- ⇒ Studs are utilized for case-to-cover fasteners.
- ⇒ Full back face or spot faced flange holes.
- ⇒ Bosses that may be drilled for vent or gage connections (suction and discharge), when required.
- ⇒ Removable case and cover and wear rings.
- ⇒ Standard flanges are 300# RF, finish per ANSI B16.5.
- ⇒ Back pullout design allows pump internals and the bearing housing to be served without disturbing the driver or piping.

PUMP COVER

Standard features of the OGH pump cover are as follows:

- (a) Standard metallurgy is low carbon steel.
- (b) Stud fastener holes back faced to assure uniform contact.
- (c) Jack screws are provided for easy removal.
- (d) The seal chamber is larger than API dimension and will accept dual seal cartridge mounted with external drive.

OGH SERIES—BIRAGHI POMPE 1906

OIL MIST LUBRICATION

BEARING BRACKET

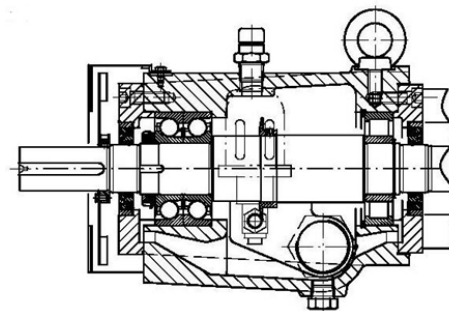
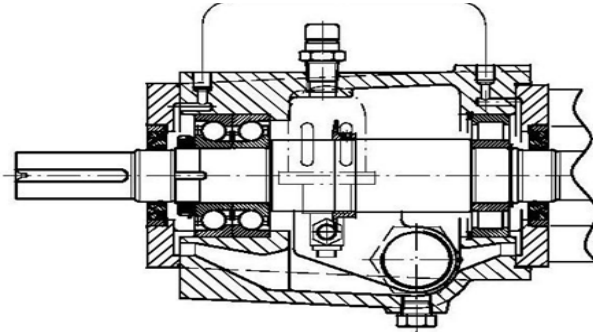
The OGH bracket is designed for short overhang and has tapered bearing cylinders for maximum access to stuffingbox. The over-size oil reservoir is furnished with a Trico 4 oz. Constant level oiler as standard.

Standard materials of construction for the extra heavy OGH bearing bracket is steel with bronze deflectors that extend under the bearing covers as a safety feature in the event of a bearing failure. The inboard deflector is finned to provide fan action in the stuffingbox area to help dissipate heat. A large sight glass is furnished for easy observation of the oil level.

A threaded filtered vent is provided. The thrust bearing cover utilizes four bolts for a secure stationary fit. Guide pins to locate oil rings when unit is installed or moved, are also a standard feature of the OGH process pump.

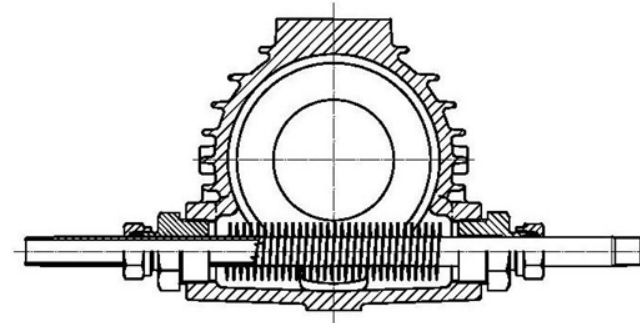
SHAFT AND SHAFT SLEEVES

The shaft is of large diameter, and short length design to reduce shaft deflection. The stepped shaft positively positions impeller and sleeve and permits free expansion at high temperatures.



FAN COOLING

WATER COOLING



Gasketed shaft sleeve positively seals and eliminates leakage under the sleeve. The sleeve extends through the gland.

SEAL GLAND

The gland utilizes four studs to insure a secure fit when mechanical seals are utilized. The studs used in the sealing gland and bearing bracket covers are ASTM-A193 GR-B-7.

COUPLING

A spacer coupling is provided for accessibility of service and maintenance. Almost any make coupling is available. The spacer permits complete removal of the rotating element without disturbing the piping or driver.

ROTATION

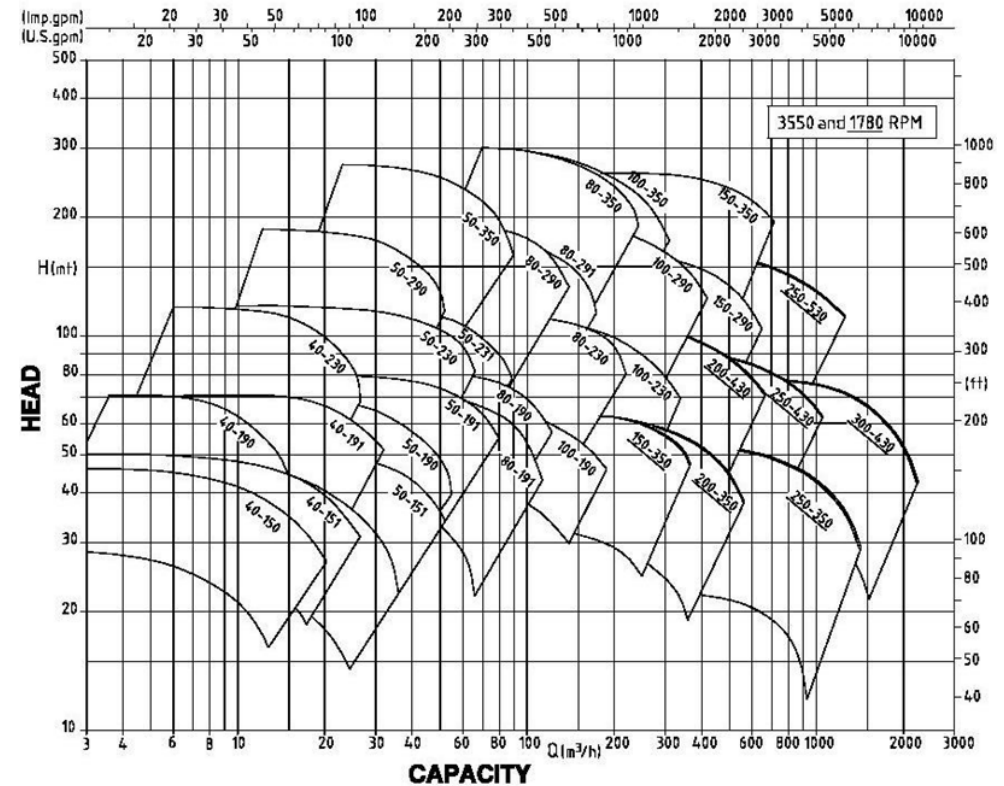
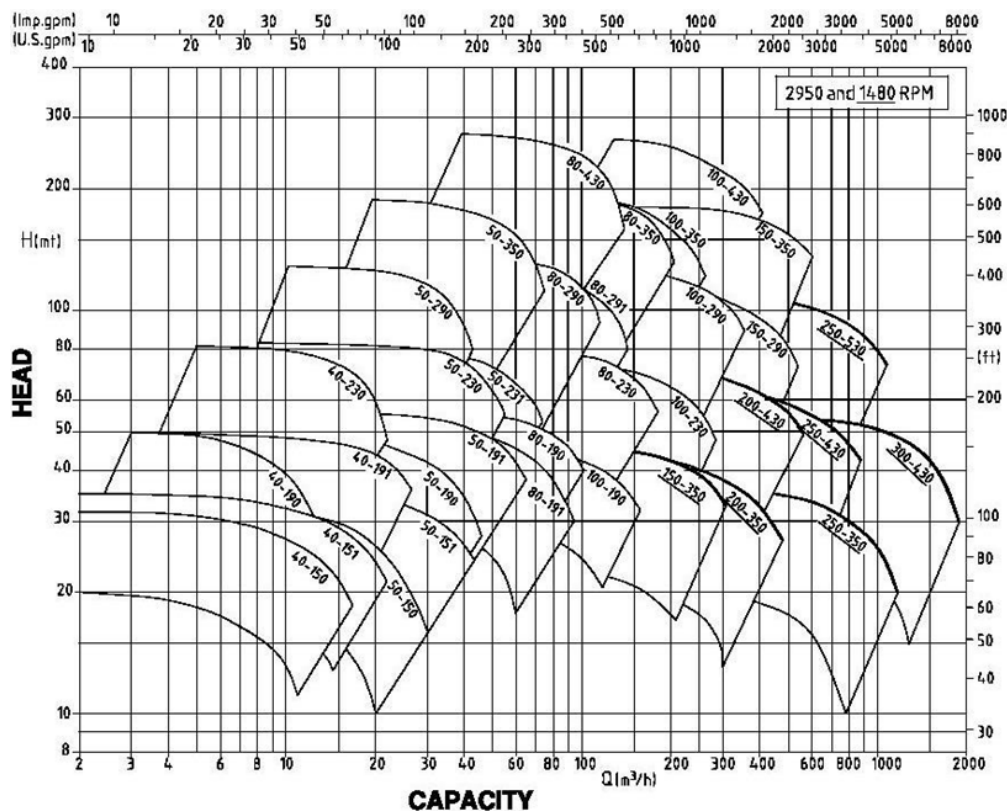
Rotation is counterclockwise when viewed from the coupling end.

OGH SERIES—BIRAGHI POMPE 1906

IMPELLER AND WEAR RINGS

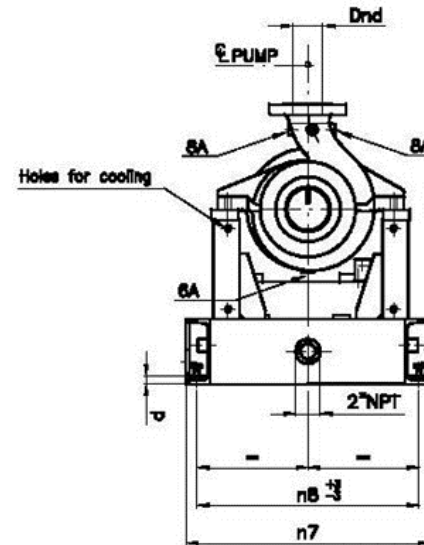
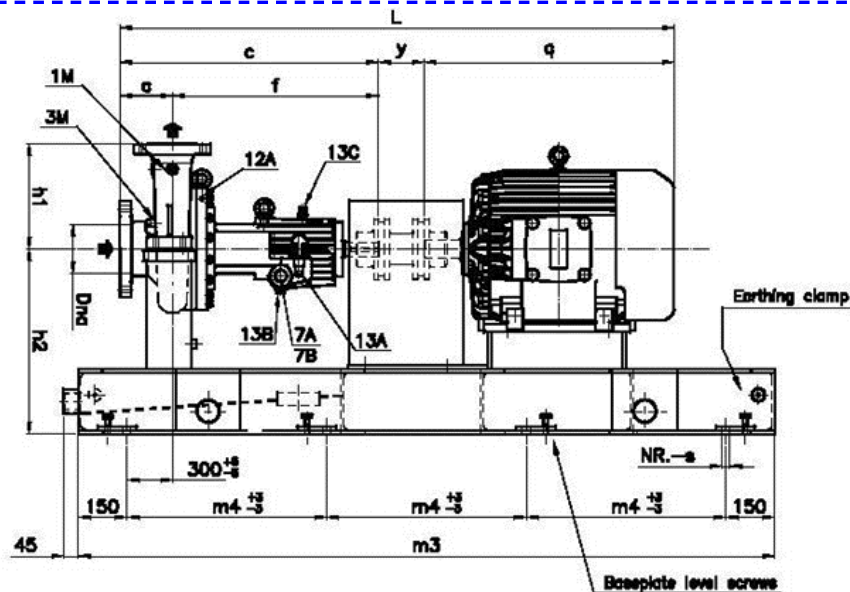
The impeller is closed, single suction statically and dynamically balanced. Renewable front and back impeller wear rings are standard. The impeller is keyed hydraulically, to the pump shaft and positively locked in place by a capnut.

Upon customer request, the impeller can also be supplied open or semi-open.



Capacity	to 2000 m ³ /hr
Head	to 280 m
Max working pressure	to 63 bar
Temperature	to 450 C°

OGH SERIES—BIRAGHI POMPE 1906



Suction and discharge flanges
ASA 150 or 300 ANSI16.5

Notes: Total weight =
Pump weight + Motor weight + Basepl. weight

Thread according to ASA B2.1

Item	Description	Size	Notes
1M	Pressure gauge	1/2"	
3M	Pressure vacuum gauge	1/2"	
6A	Casing drain	3/4"	
7A/B	Cooling liquid inlet/Outlet	1 1/2"	
8A	Seal leakage hole	1/2"	
12A	Circulation liquid outlet	1/2"	
13A	Constant level oiler	1/4"	
13B	Oil drain	1/2"	
13C	Vent plug	1/2"	

BASEPLATE TYPE

(Main dimensions according with API 610 8" EDIC.)

Base No.	Baseplate dimensions							Weight kg
	m3	m4	n7	n8	p	NR.	s	
9	2145	615	1395	1320	24	8	25	560
9.5	2445	715	1395	1320	24	8	25	630
10	2760	615	1395	1320	24	10	25	680
12	2780	615	1550	1475	26	10	25	830
13	3160	715	1550	1475	26	10	25	990
14	3875	715	1550	1475	26	12	25	1160

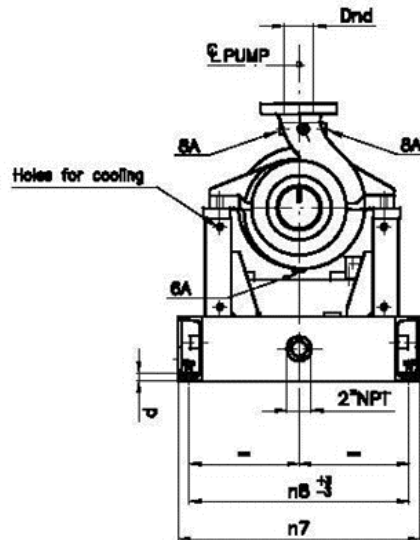
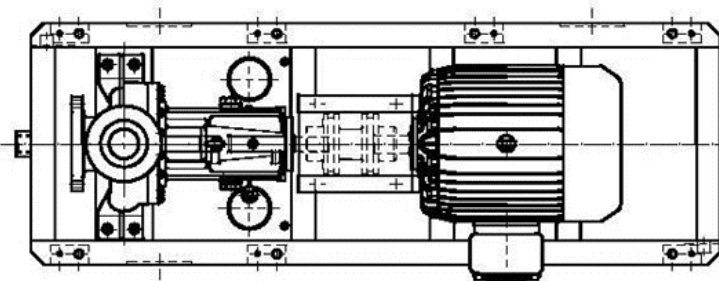
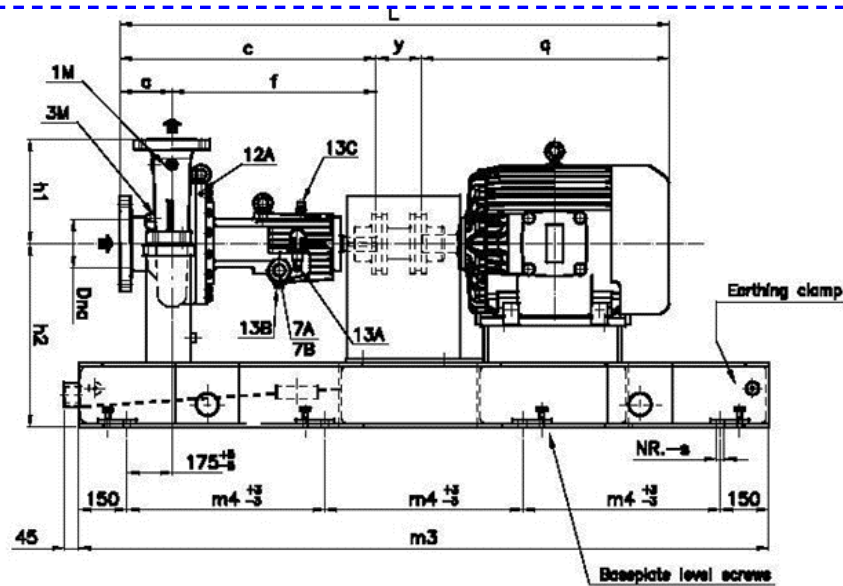
All dimensions are in mm and approximate
(not to be used for construction purpose)

(*) May change with motor type

Pump type	Bearing brooket	Pump dimensions							Weight kg.
		DNa	DNd	a	c	f	h1	h2	y
OGH 150-350	04	200	150	200	985	785	530	700	180
OGH 200-350	04	250	200	250	1045	795	600	700	180
OGH 200-430	04	250	200	250	1040	790	650	750	180
OGH 250-350	04	300	250	300	1120	820	600	750	250
OGH 250-430	04	300	250	300	1100	800	700	850	250
OGH 250-530	04	300	250	300	1100	800	800	850	250
OGH 300-430	04	350	300	350	1120	820	750	850	250

Motor dimensions																																
IEC - 132S/M			IEC - 160M/L			IEC - 180M/L			IEC - 200L			IEC - 225S/M			IEC - 250M			IEC - 280S/M			IEC - 315S/M/L			IEC - 355L			IEC - 400L			IEC - 450L		
Weight kg. 90			Weight kg. 170			Weight kg. 230			Weight kg. 315			Weight kg. 380			Weight kg. 480			Weight kg. 780			Weight kg. 1230			Weight kg. 1680			Weight kg. 2280			Weight kg. 3280		
L*	q*	Motor N/A	L*	q*	Motor N/A	L*	q*	Motor N/A	L*	q*	Motor N/A	L*	q*	Motor N/A	L*	q*	Motor N/A	L*	q*	Motor N/A	L*	q*	Motor N/A	L*	q*	Motor N/A	L*	q*	Motor N/A	L*	q*	Motor N/A
1685	520	9	1825	660	9	1885	720	9	1950	785	9.5	1995	830	9.5	2060	895	9.5	2210	1045	10												
						1945	720	9.5	2010	785	9.5	2065	830	9.5	2120	895	9.5	2270	1045	10												
									2005	785	9.5	2050	830	9.5	2115	895	9.5	2265	1045	10	2415	1195	10									
												2200	830	10	2265	895	10	2415	1045	10	2465	1195	10									
																		2395	1045	12	2545	1195	12	2780	1430	13	2955	1605	14			
																					2545	1195	12	2780	1430	13	2955	1605	14	3290	1900	14
																					2585	1195	12	2800	1430	13	2975	1605	14	3270	1900	14

OGH SERIES—BIRAGHI POMPE 1906



Suction and discharge flanges
ASA 150 or 300 ANSI16.5

Notes: Total weight =
Pump weight + Motor weight + Basepl. weight

Thread according to ASA B2.1

Item	Description	Size	Notes
1M	Pressure gauge	1/2"	
3M	Pressure vacuum gauge	1/2"	
6A	Cooling drain	1/2"	
7A/B	Cooling liquid inlet/Outlet	1 1/2"	
8A	Seal leakage hole	1/2"	
12A	Circulation liquid outlet	1/2"	
13A	Constant level orler	1/4"	
13B	Oil drain	1/2"	
13C	Vent plug	1/2"	

BASEPLATE TYPE

(Main dimensions according with API 610 8" EDIC.)

Baseplate dimensions							
Base NR.	m3	m4	n7	n8	p	NR.	Weight kg.
1	1530	615	750	685	22	6	215
1.5	1840	770	750	685	22	6	280

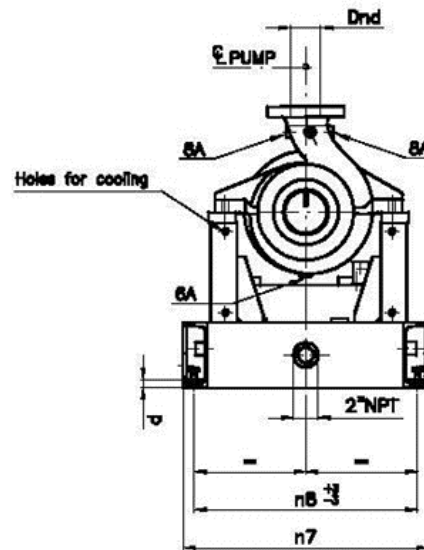
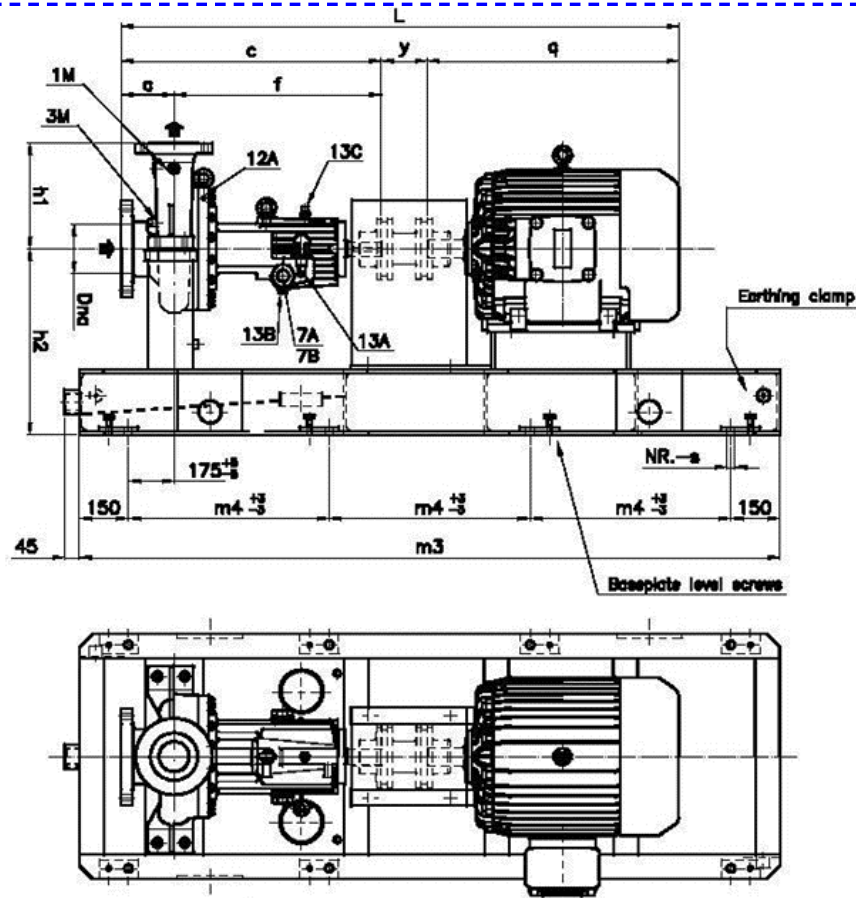
All dimensions are in mm and approximate
(not to be used for construction purpose)

(*) May change with motor type

Pump type	Bearing bracket	Pump dimensions									Weight kg.
		DNa	DNd	a	c	f	h1	h2	y		
OGH 40-150	01	50	40	125	705	580	225	450	125	112	
OGH 40-151	01	50	40	125	705	580	225	450	125	112	
OGH 40-190	01	50	40	125	705	580	250	450	125	118	
OGH 40-191	01	50	40	125	705	580	250	450	125	118	
OGH 40-230	01	50	40	125	705	580	280	480	125	144	

Motor dimensions																			
IEC - 80A/B				IEC - 90S/L				IEC - 100L				IEC - 112M				IEC - 132S/M			
Weight	kg. 11	Weight	kg. 30	Weight	kg. 40	Weight	kg. 65	Weight	kg. 90	Weight	kg. 170	Weight	kg. 230	Weight	kg. 315				
L*	q*	L*	q*	L*	q	L*	q	L*	q	L*	q	L*	q	L*	q				
1140	310	1195	365	1240	410	1280	450	1350	520	1490	680	1530	750	1570	820				
1140	310	1195	365	1240	410	1280	450	1350	520	1490	680	1530	750	1570	820				
		1195	365	1240	410	1280	450	1350	520	1490	680	1530	750	1570	820				
		1195	365	1240	410	1280	450	1350	520	1490	680	1530	750	1570	820				

OGH SERIES—BIRAGHI POMPE 1906



Suction and discharge flanges
ASA 150 or 300 ANSI16.5

Notes: Total weight =
Pump weight + Motor weight + Basepl. weight

Thread according to ASA B2.1

Item	Description	Size	Notes
1M	Pressure gauge	1/2"	
3M	Pressure vacuum gauge	1/2"	
6A	Casing drain	1/2"	
7A/B	Cooling liquid Inlet/Outlet	1 1/2"	
8A	Seal leakage hole	1/2"	
12A	Circulation liquid outlet	1/2"	
13A	Constant level oiler	1/4"	
13B	Oil drain	1/2"	
13C	Vent plug	1/2"	

BASEPLATE TYPE

(Main dimensions according with API 610 8' EDIC.)

Baseplate dimensions								Weight kg.
Base mm.	m3	m4	n7	n8	p	NR.	s	
1	1530	615	750	685	22	6	25	215
1.5	1840	770	750	685	22	6	25	280
2	2145	615	750	685	22	8	25	350
4	2445	715	915	840	24	8	25	450

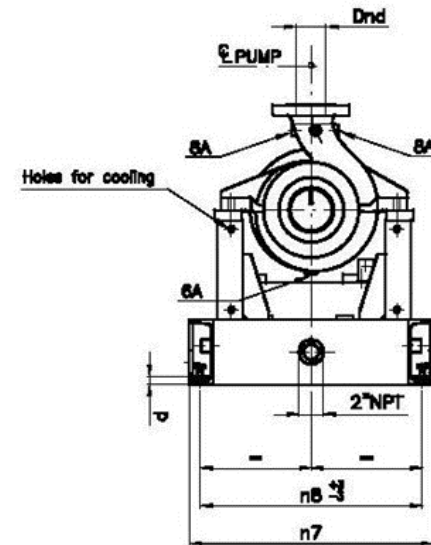
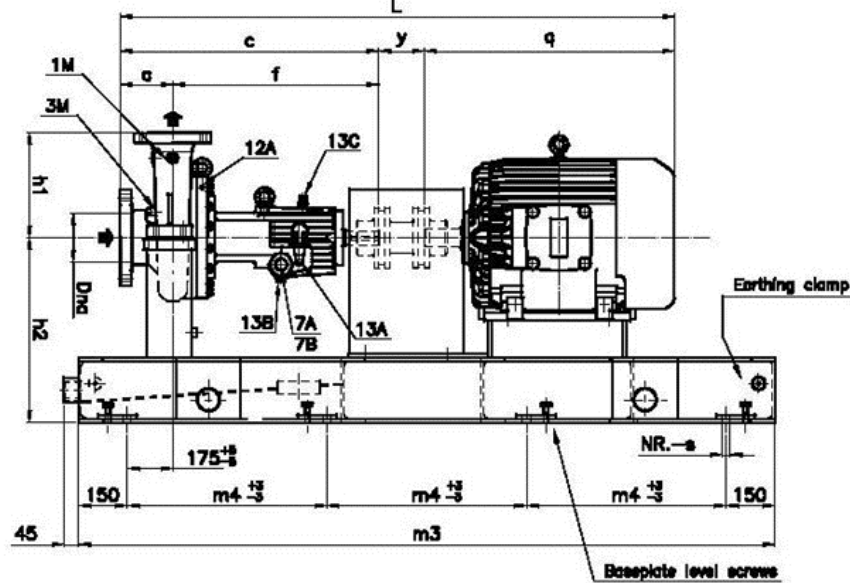
All dimensions are in mm and approximate
(not to be used for construction purpose)

(*) May change with motor type

Pump type	Bearing bracket	Pump dimensions								Weight kg.
		DNc	DNd	a	c	f	h1	h2	y	
OGH 50-150	01	80	50	125	705	580	225	450	125	116
OGH 50-151	01	80	50	125	705	580	225	450	125	116
OGH 50-190	01	80	50	125	705	580	225	450	125	135
OGH 50-191	01	80	50	125	705	580	225	450	125	135
OGH 50-230	01	80	50	125	705	580	225	450	125	149
OGH 50-231	01	80	50	125	705	580	225	450	125	150
OGH 50-290	02	80	50	150	815	665	315	520	180	204
OGH 50-350	02	80	50	175	845	670	350	600	180	234

Motor dimensions									
EC - 90S/L		EC - 100L		EC - 112M		EC - 132S/M		EC - 160M/L	
Weight	30	Weight	40	Weight	65	Weight	90	Weight	170
L*	q*	L*	q*	L*	q*	L*	q*	L*	q*
1195	365	1240	410	1280	450	1350	520	1490	665
1195	365	1240	410	1280	450	1350	520	1490	665
1195	365	1240	410	1280	450	1350	520	1490	665
1195	365	1240	410	1280	450	1350	520	1490	665
		1240	410	1290	450	1360	520	1500	665
				1290	450	1360	520	1500	665
						1460	520	1600	665
						1691	665	1745	720
								1800	775
								1855	830
								1820	895
								2070	1045
									4

OGH SERIES—BIRAGHI POMPE 1906



Suction and discharge flanges
ASA 150 or 300 ANSI16.5

Notes: Total weight =
Pump weight + Motor weight + Basepl. weight

Thread according to ASA B2.1

Item	Description	Size	Notes
1M	Pressure gauge	1/2"	
3M	Pressure vacuum gauge	1/2"	
6A	Coaling drain	1/2"	
7A/B	Cooling liquid Inlet/Outlet	1 1/2"	
8A	Seal leakage hole	1/2"	
12A	Circulation liquid outlet	1/2"	
13A	Coastant level oiler	1/4"	
13B	Oil drain	1/2"	
13C	Vent plug	1/2"	

BASEPLATE TYPE

(Main dimensions according with API 610 8" ENCL.)

Base No.	Baseplate dimensions							Weight kg.
	m3	m4	n7	n8	p	NR.	a	
1	1530	615	750	685	22	6	25	215
1.5	1840	770	750	685	22	6	25	280
2	2145	615	750	685	22	8	25	350
4	2445	715	915	840	24	8	25	450
4.5	2760	615	915	840	24	10	25	650

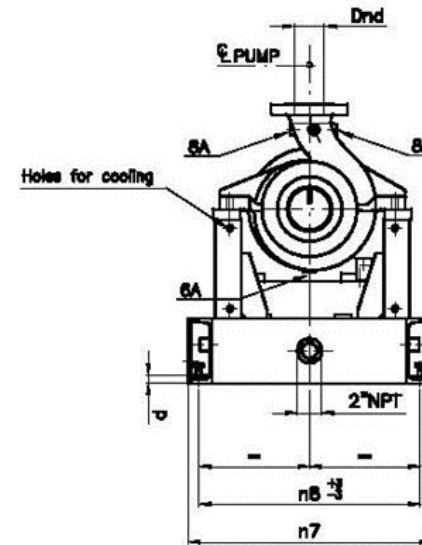
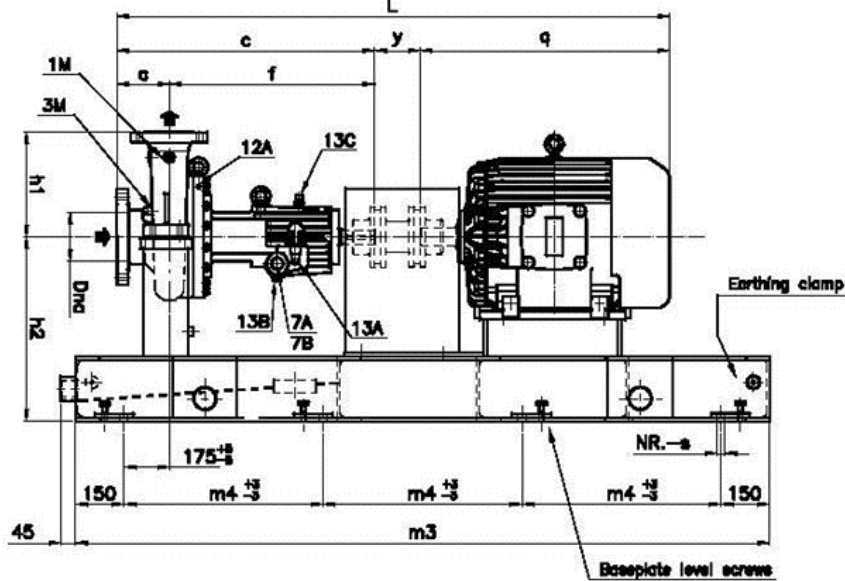
All dimensions are in mm and approximate
(not to be used for construction purpose)

(*) May change with motor type

Pump type	Bearing bracket	Pump dimensions									Weight kg.
		DNo	DNd	a	c	f	h1	h2	y		
OGH 80-190	01	100	80	150	745	595	280	480	125	156	
OGH 80-191	01	100	80	150	745	595	280	480	125	156	
OGH 80-230	02	100	80	175	850	675	315	520	180	194	
OGH 80-290	02	100	80	175	845	670	350	560	180	205	
OGH 80-291	02	100	80	175	855	680	350	600	180	208	
OGH 80-350	03	100	80	200	980	780	400	650	180	254	
OGH 80-430	03	100	80	175	955	780	450	650	180	274	

Motor dimensions																			
IEC - 112M		IEC - 132S/M		IEC - 160M/L		IEC - 180M/L		IEC - 200L		IEC - 225S/M		IEC - 250M		IEC - 280S/M		IEC - 315S/M/L		IEC - 355L	
Weight kg. 65		Weight kg. 90		Weight kg. 170		Weight kg. 230		Weight kg. 315		Weight kg. 380		Weight kg. 450		Weight kg. 550		Weight kg. 640		Weight kg. 1000	
L*	q*	L*	q*	L*	q*	L*	q*	L*	q*	L*	q*	L*	q*	L*	q*	L*	q*	L*	q*
1320	450	1390	520	1530	660	1590	720	1645	775	1805	775	1925	895	2070	1045	2353	1195	2550	1390
1320	450	1390	520	1530	660	1590	720	1645	775	1805	775	1925	895	2070	1045	2353	1195	2550	1390
		1550	520	1690	660	1750	720	1805	775	1805	775	1925	895	2070	1045	2353	1195	2550	1390
				1695	660	1745	720	1800	775	1800	775	1920	895	2070	1045	2353	1195	2550	1390
				1895	660	1755	720	1810	775	1810	775	1930	895	2075	1045	2330	1195	2550	1390
										1935	775	2065	895	2205	1045	2353	1195	2550	1390
										1910	775	2055	895	2180	1045	2330	1195	2550	1390

OGH SERIES—BIRAGHI POMPE 1906



Suction and discharge flanges
ASA 150 or 300 ANSI16.5

Notes: Total weight =
Pump weight + Motor weight + Basepl. weight

Thread according to ASA B2.1

Item	Description	Size	Notes
1M	Pressure gauge	1/2"	
3M	Pressure vacuum gauge	1/2"	
6A	Cooling drain	3/4"	
7A/B	Cooling liquid inlet/outlet	1 1/2"	
8A	Seal leakage hole	1/2"	
12A	Circulation liquid outlet	1/2"	
13A	Constant level orler	1/4"	
13B	Oil drain	1/2"	
13C	Vent plug	1/2"	

BASEPLATE TYPE

(Main dimensions according with API 610 6" EDIC.)

Baseplate dimensions								
Base No.	m3	m4	n7	n8	p	NR.	s	Weight kg
1.5	1840	770	750	685	22	6	25	280
2	2145	615	750	685	22	8	25	350
4	2445	715	915	840	24	8	25	450
5.5	2145	615	1065	990	24	8	25	470
6	2445	715	1065	990	24	8	25	470
6.5	2760	615	1065	990	24	10	25	650

All dimensions are in mm and approximate
(not to be used for construction purpose)

(*) May change with motor type

Pump type	Bearing bracket	Pump dimensions									Weight kg.
		DNo	DNd	a	c	f	h1	h2	y		
OGH 100-190	01	150	100	150	745	595	300	480	125	112	
OGH 100-230	02	150	100	175	860	855	350	580	180	265	
OGH 100-290	03	150	100	175	950	775	450	650	180	320	
OGH 100-350	03	150	100	200	980	780	450	650	180	347	
OGH 100-430	03	150	100	200	980	780	500	700	180	453	
OGH 150-290	03	200	150	200	975	775	500	650	180	384	
OGH 150-350	03	200	150	200	985	785	530	700	180	425	

Motor dimensions									
IEC - 132S/M		IEC - 160M/L		IEC - 180M/L		IEC - 200L		IEC - 225S/M	
Weight kg. 90		Weight kg. 170		Weight kg. 230		Weight kg. 315		Weight kg. 380	
L*	q*	L*	q*	L*	q*	L*	q*	L*	q*
1390	520	1530	660	1505	720	1655	785	1700	830
		1700	660	1760	720	1825	785	1870	830
								1935	895
								2025	895
								2175	1045
								2205	1045
								2205	1045
								2355	1195
								2550	1390
								2525	1565
								2205	1045
								2350	1195
								2545	1390
								2215	1045
								2360	1195
								2555	1390
								2530	1565

Biraghi Pompe 1906 Plants



NIGERIA



UAE



ITALY



Biraghi
POMPE1906

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