

Technical Specification

Pos. 1 NSL80-330/D02

General Information

Pump Type	Vertical Inline Centrifugal Pump	Pump	NSL80-330/D02
Description	The NSL pump is a single suction single stage centrifugal pump		

Pump Data

Pump Media	Seawater	
Density	1.0250	kg/l
Viscosity	1.00	cSt
Capacity	225.00	UK gpm
Pressure / Head	75.00	psi
Pump Speed	1829	rpm
Power Consumption	15.30	kW
NPSHr	1.67	mLC
Non-Overload Power	19.61	kW
Eta / Efficiency	57.65	%
Max. Working Pressure	15.00	Bar
Test Pressure	8.30	Bar
Liquid Temperature	32.00 - 89.60	°F
Ambient Temperature	66.92	°F

Motor Data

Brand	Manufacturers standard
Motor	Combimac 200L-4 36kW
Motor Size	200 IEC
Efficiency Class	IE1
Performance	36.00 kW
Number of Poles	4
Power Supply	3 x 440V, 60 Hz
Motor Speed	1764 rpm
Insulation Class	F
Motor Enclosure	IP55
Rated Current	60.11 A
Starting Current Ratio	7.20
Cos Phi	0.86
Motor Options	-

Max. working pressure; being the pressure at the suction branch and the maximum generated head at zero flow.

If higher working pressure is required, other materials are available upon request.

Test pressure; pump approved by classification societies have been pressure tested according to the requirements of these societies, i.e. a test pressure of 1.5 x working pressure. The test pressure is stated in the test certificate and stamped on the discharge flange of the pump

Specification

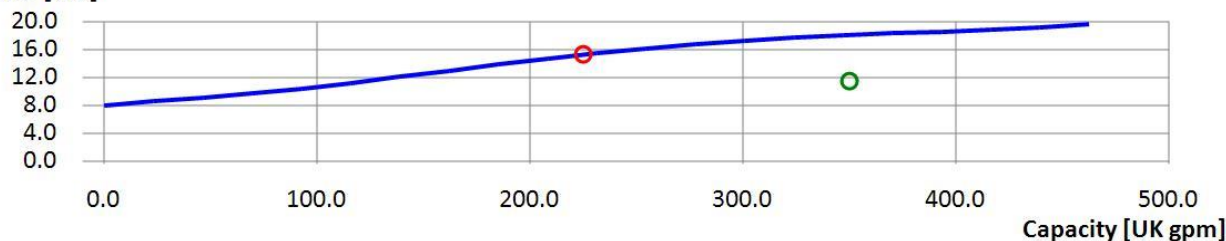
Pump Casing	Bronze (RG5) CC491K
Suction/Discharge	100/80 mm. EN1092-2
Flanges	PN10
Impeller	NiAlBz (CC333)
Impeller Diameter	330 mm
Wear Ring	NiAlBz (CC333)
Shaft	Duplex Stainless Steel (AISI329)
Mechanical Shaft Seal	NITRIL Ø45
Bearing	Ball Bearings
Coupling	Rigid close Coupled

Rotation	Clockwise (Seen from drive end)
Priming Unit	B114N/60HZ/2,6KW/TK10UM /MV220V
Manometer	WITHOUT MANOMETERS
Max Grain Size	8 mm
Color Specification	Yellow, Ral 1007
Paint Specification	DESMI Standard
Class Society Test	LRS - Lloyds Register of Shipping
Test Grade	ISO 9906 Grade 2B
Variable Speed Drive	None

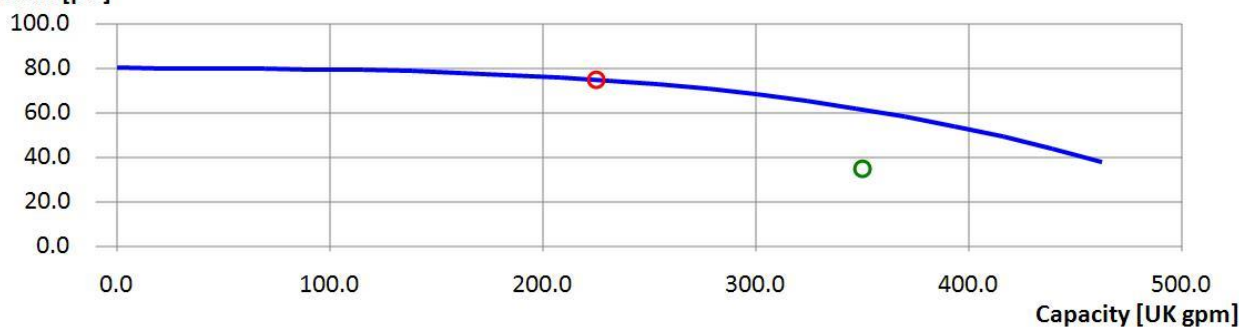
Comments:

Pos. 1 NSL80-330/D02 - Pump Curves

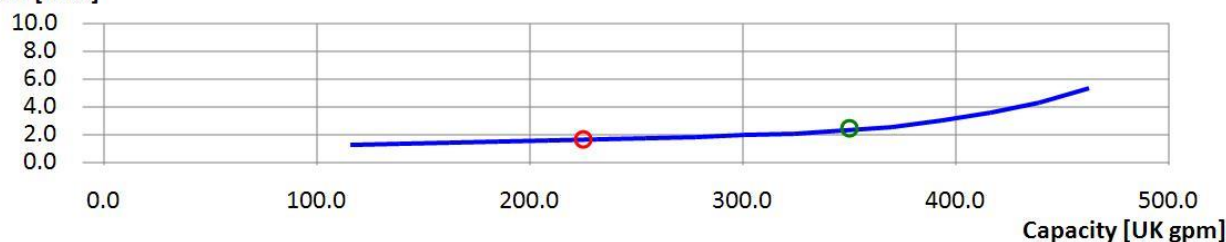
Power [kW]



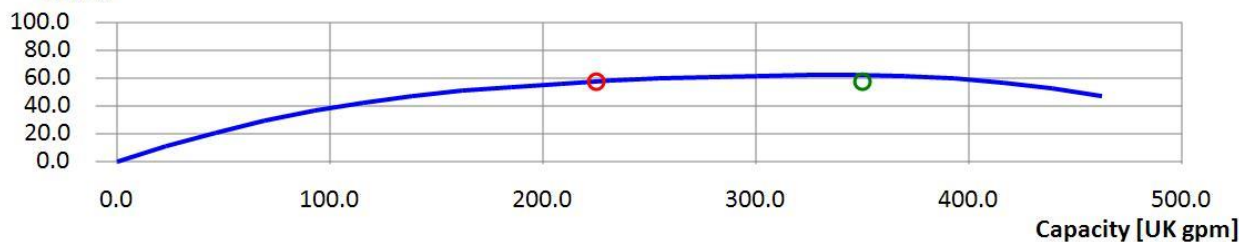
Head [psi]



NPSHr [mLC]



ETA %



- 1) NSL80-330, Imp. Dia: 330.00 mm, Speed: 1829 rpm, Power: 15.30 kW, Density: 1.025 kg/l, Q: 225.00 UK gpm, H: 75.00 psi, NPSHr: 1.67 mLC, Eta/Eff.: 57.65 %
2) NSL80-330, Imp. Dia: 330.00 mm, Speed: 0 rpm, Power: 11.46 kW, Density: 1.025 kg/l, Q: 350.00 UK gpm, H: 35.00 psi, NPSHr: 2.50 mLC, Eta/Eff.: 57.32 %

MARINE & OFFSHORE

INDUSTRY

OIL SPILL RESPONSE

DEFENCE & FUEL

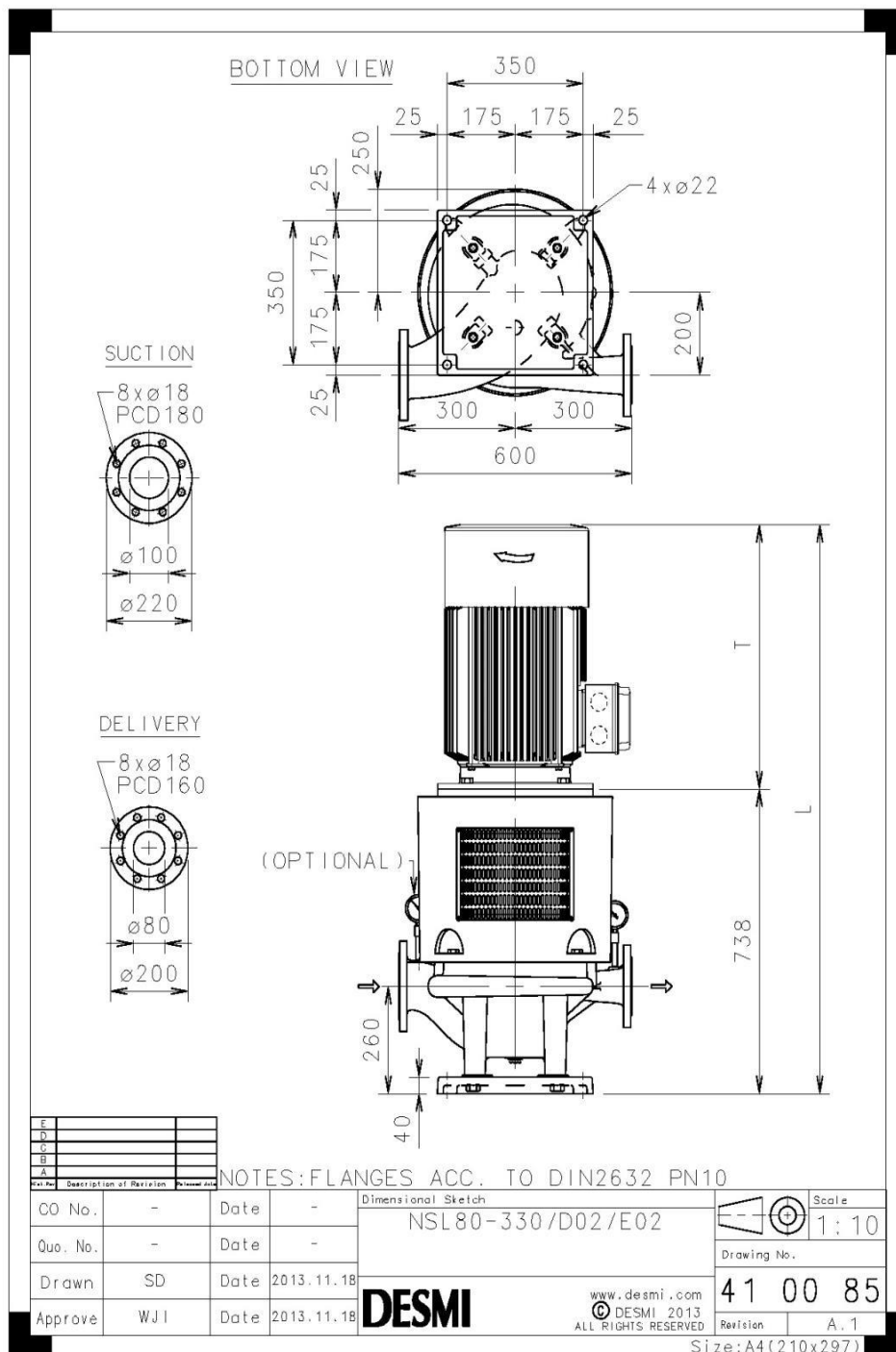
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Pos. 1 NSL80-330/D02 - Dimensional Drawing



Pos. 1 NSL80-330/D02 - Spare Parts

Pos.	Item Description	Qty
-	--	1
0001	513710 P. CASING NSL80-330 RG5	1
0002	704390 PLUG W.4K 1/4" BSPT A4	2
0003	506962 PLUG 3/8" BSP RG5	1
0004	506711 SEAL RING Ø135X120X20 ALBZF60B	1
0005	513691 IMPELLER NSL80-330 ALBZ	1
0006	706279 SET SCREW M16X 40 A4 DIN933	1
0007	704032 SPRING WASHER M16 DIN128A	1
0008	506702 DIST.RING Ø42XØ16X4 SIS2343	1
0009	704022 KEY AB 10X 8X 60 1.4571	1
0010	712099 ME.S.SEAL. DS/Ø45-S50-BVPGG	1
0011	705274 V-RING 45S NITRIL	1
0012	704247 SNAP RING UK 55X2,0 DIN983	1
0013	708836 BALL BEARING 6311 RS	1
0014	704267 SUPPORT WASHER 55X68X3 ST	1
0015	110165 BEARING COVER NSL GRP. 1 GG20	1
0016	704371 SCREW H-CAP M12X 30 A4 DIN933	4
0017	110172 SHAFT NSL -02 GRP.1 1.4460	1
0018	513751 REAR COVER NSL80/125-330 RG5	1
0019	110176 COUPLING 200 NSL -02 GRP.1	1
0020	513770 MOT.BRACKET NSL-330/02 M GGG40	1
0021	706779 O-RING Ø335,00X6,00 NITRIL	1
0022	705750 SET SCREW M12X 40 A4 DIN933	12
0023	704067 WASHER M12 A4 DIN125A	12
0026	110167 COVER U.BEARING NSL GRP.1 GG20	1
0027	513781 SEAL RING 2 NSL80-330 ALBZ	1
0028	110557 GUARD F.B5 MONOBL.CONST.ST37.2	2
0058	704286 TUBE COBBER 8X1,0	0.9
0059	709619 MALE CONN. 1/4"X8 SECUREX	2
0064	704279 SET SCREW M16X 35 ST8.8 FZB	4
0070	704016 ALLEN SCREW M 8X 20 ST8.8 FZB	8
0071	700323 SET SCREW M16X 30 ST8.8 FZB	4
0072	110534 INTER.FLANGE 200 ST37.2	1
0073	702413 POINT.SCR. M 8X16 45H DIN916	1
0075	720488 HEX BOLT M5 X 8 W. FL. ST10.9	8
0076	707211 KEY A 12X 8X 63 ST60.11	1
0081	704187 SEALING WASHER 3/8 BSP NYLON 6	1
0084	704268 GREASE NIPPLE 1/8"BSP HZ1	1
0086	708178 POINT.SCR. M16X25 A4 DIN916	2
0107	704391 PLUG W.4K 1/2" BSPT A4	1
0999	704047 ARROW STICKER BLACK	1
0999	704048 DESMI TRANSFERS LABELS BLACK	1
A001	114094 L SHAPE BRACKET	1
A002	706923 PIPE CLAMP GR.2 Ø15 POLYPROP.	1
A003	760048 ALLEN SCREW M 6X 30 A4 DIN912	2
A004	700319 SET SCREW M12X 40 ST8.8 FZB	1
A004	704287 WASHER M12 DIN125A FZB	1
A004	760294 SPRING WASHER M12 FZB DIN127B	1

B001	710693	PIPE CLAMP 3/4"-M8 W.ISOLATE	1	
B002	704066	WASHER M 8 A4 DIN125A	1	
B002	708164	STUD M 8X 30 SIS2343	1	
O000	101422	ARROW PLATE 50X20X0,5 ALU	1	
O000	704041	RIVET Ø2,3X4 ALU.	2	
O001	111767	PRIMING IMPELLER B114N RG10	1	
O002	519600	PUMP CASING B114N RG5	1	
O003	519620	END COVER B114N RG5	1	
O004	111768	SHAFT B114N RG5	1	
O005	712093	ME.S.SEAL. DS/Ø20-S50-BVPGG	1	
O006	760049	POINT.SCR. M 6X10 A4 DIN916	3	
O007	707256	POINT.SCR. M 6X16 A4 DIN916	1	
O008	111596	FEED WATER TANK B114N RESIST	1	
O009	704188	SEALING WASHER 1/2 BSP NYLON 6	2	
O010	506963	PLUG 1/2"BSP RG5	1	
O011	2039311	KEY A 6X 6X 25 1.4571	1	
O012	704367	ALLEN SCREW M 8X 20 A4 DIN912	2	
O013	0095451	O-RING 134,5X3 SOR76	1	
O014	710762	WASHER M8 Ø21/ 8,4X 4 ST. FZB	2	
O015	701704	MALE ELBOW W/SL.1/2"X15 BRASS.	2	
O017	701705	HEX.NIPPLE W/SL. 1/2"X15 BRASS	4	
O018	708023	HEX.BUSHING 1"X1/2" RG BRASS	1	
O019	702085	DIRT STRAINER 1" BSP BRASS	1	
O020	703620	HEX.RED.NIPPLE 1"X1/2" BRASS	1	
O021	700472	CHECK VALVE 1/2" BRASS	1	
O023	705467	TEE 1/2"-1/2"-1/2"BSP BRASS	1	
O024	701730	HEX.NIPPLE 1/2"X 1/2" BRASS	1	
O025	111694	RED.NOZZLE 1/2"X1/4"BSP BRASS	1	
O026	704263	HEX.NIPPLE W/SL 1/4"XØ8 BRASS	1	
O028	704275	MALE ELBOW W/SL.1/4"X8 BRASS.	1	
O029	704055	SPRING WASHER M 8 DIN128A	4	
O029	704062	NUT M 8 A4 DIN934	9	
O029	705254	SET SCREW M 8X25 A4 DIN933	10	
O029	110965	BRACKET EJECTOR B114 TOP NSL	1	
O029	110966	BRACKET EJECTOR B114 BOTTOM	1	
O030	715946	SOLENOID VALVE 1/2",230V-50/60	1	
O031	716805	PRESSURE SWITCH ASCO 2402612	1	
O032	705383	WELD. SOCKET 1/4" BSP AISI316	1	
O033	705382	NIPPLE 1/4"X80 AISI316	1	

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