SDS / SDS-\

DOUBLE SUCTION PUMPS











Handled Liquids

Clean or slightly contaminated low viscosity liquids without solid & fibrous particles.

Technical Data

Discharge Flange _____DN 65.....DN 600 mm

Capacity____up to 6000 m³/h

Head up to 180 m

up to 2900 rpm Speed

Operating Temperature _____-10 °C' to +110 °C(*)

Casing Pressure (Pmax) 16 bar - 25 bar(*)

(Pmax: Suction Pressure + Shut o Head)

(*) The Material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact for detailed information.

Design Features

- •Horizontal or vertical manufacturing option. Axial split case, single stage, double suction centrifugal pumps.
- •Suction and discharge flanges are on the same axis on the bottom casing. Split case design permits easy disassembly of the rotor group for maintenance or repair without distorting pump alignment and suction / discharge piping.
- Suction and Discharge Flanges are comform to EN 1092-2/PN 16 or PN25. (EN 1092-1 / PN 16 or PN 25 for steel or stainless steel casing)

- •All impellers are balanced dynamically or statically according to ISO 1940 class 6.3.
- •Impeller is of double suction design. This feature increases pump suction performance in addition with providing the balance of hydraulic axial forces resulting higher bearing lifes and higher reliability.
- •In standard construction, the direction of rotation is clockwise when it is looked from drive end. In this case, suction flange is on right and discharge flange is on left. Upon request the direction of rotation can be reversed. This time the position of the suction and discharge flanges are also reversed.
- · Grease lubricated ball bearings are used in horizontal installation. In case of vertical installation, pumping liquid lubricated journal bearings on top and grease lubricated ball bearings on bottom are used.

Shaft Sealing

•Depending on request or requirement, pumps with soft packing or single, double and cartridge type mechanical seals can be supplied.

Pump Designation

SDS - V 200 - 500

Pump Type

Vertical Installation

Discharge Nozzle (DN-mm) —

Nominal Impeller Diameter (mm) _____



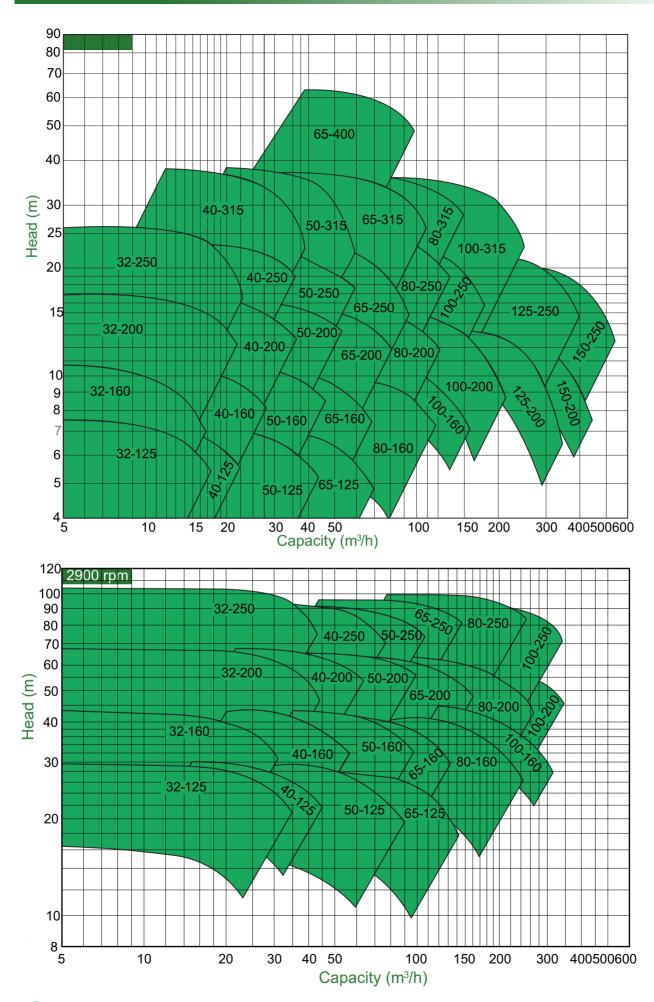


















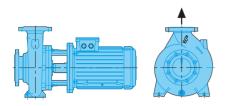




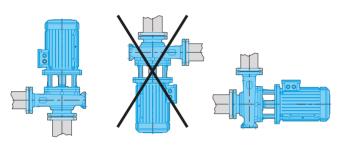


ECO SNM Technical Data

ECO SNM / ECO SNM-V pumps can be installed in several arrangements

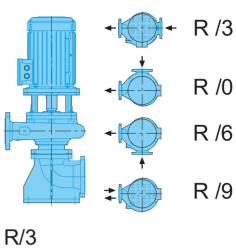


Horizontal installation on ground Horizontal position on a base plate



Installation on perpendicular pipes

•Between two perpendicuar pipes in horizontal or vertical position. The axis of motor below the horizontal line is not admissible.





Direction of rotation viewed from driver end: R: Right

Veritical installation on ground

- •Vertical position by means of a special suction elbow with foot.
- •Standard manufacturing is as in the drawings above (R/3). Suction elbow position can be adjusted for dierent positions.





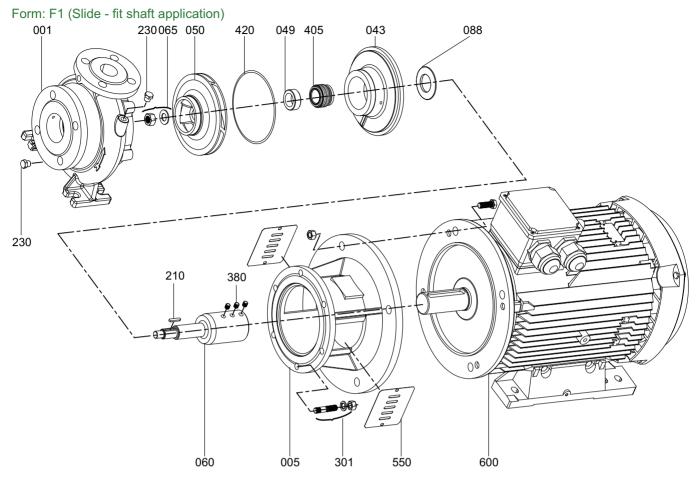


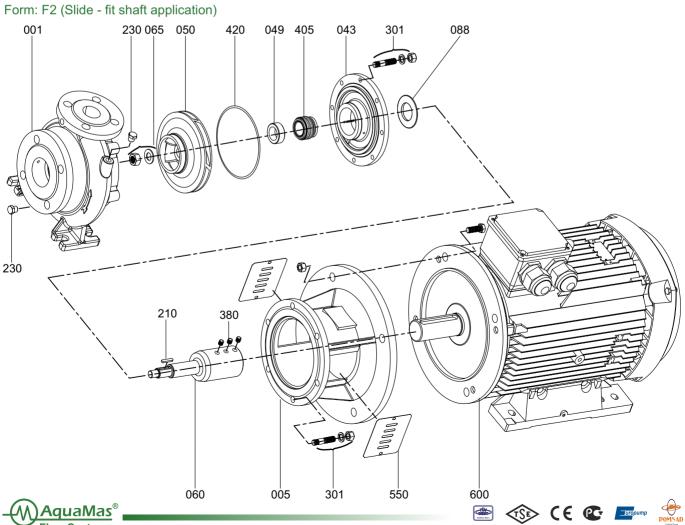


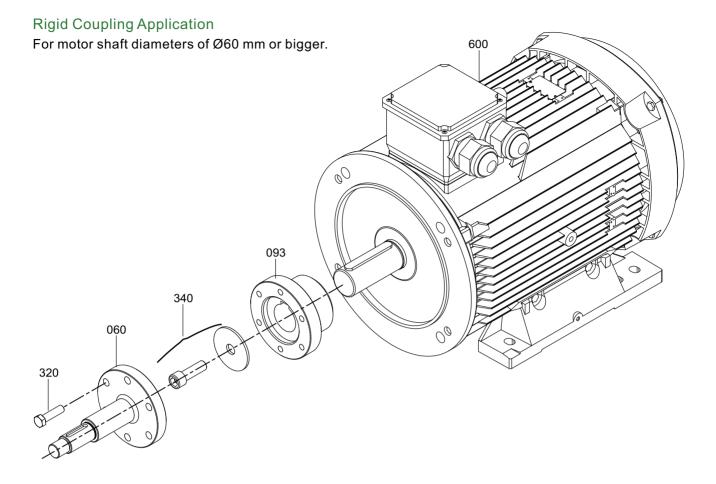


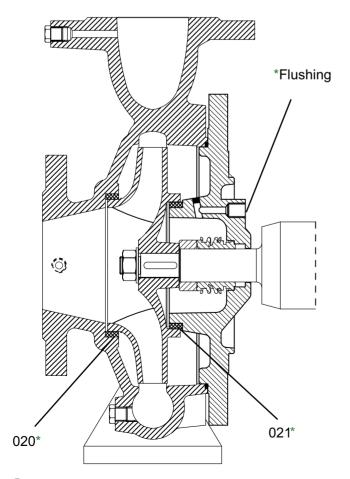


Flow Systems









Part List

001	Volute Casing
005	Motor Pedestal
020*	Wear Ring (casing)
021*	Wear Ring (seal cover)
043	Mechanical Seal Cover
049	Mechanical Seal Spacer Sleev
050	Impeller
060	Shaft
065	Impeller Nut and Washer
880	Thrower
093	Rigid Coupling
210	Impeller Key
230	Screw
301	Stud, Washer and Nut
320	Screw
340	Allien Screw and Washer
380	Set Screw
405	Mechanical Seal
420	O-ring
550	Guard
600	Electric Motor
*) Ont	ional

(*) Optional













ECO SNM Technical Data

Material Options

	10	30	3S	20	60	6L	70	7L	8M	7D	7S	8N	80	4C	4A	40	80	8T	60	7L	7E	7D
Part List	0.6025	0.7040	0.7043	1.0619	1.4308	1.4309	1.4408	1.4409	1.4500	1.4517	1.4469	1.4317	1.4008	2.1050.01	2.0975.01	2.1096.01	1.4021	1.4021+QT	1.4301	1.4404	1.4460	1.4462
Volute Casing		0	0	0	0	0	0	0	0	0	0	0	0	0								
Mechanical Seal Cover	•	0	0	0	0	0	0	0	0	0	0	0	0	0								
Impeller		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	
Shaft																	•	0	0	0		0
Bearing Housing	•	0	0	0	0	0	0	0														
Wear Ring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Mech. Seal Spacer Sleeve																	•	0	0	0		0
Mechanical Seal (*) EN 12756																						

(*)Optional: Depending on customer requirement or request different types and brands of mechanical seals are applicable. Standard manufacturing Optional NOTE: Depends on the request, dierent than above casting and shaft material can be supplied.

Material Equivalents

TANIM		DIN / EN	AISI / SAE / ASTM		
Cast Iron	0.6025	EN-GJL-250 (GG25)	A48 Class 40B		
Nodular Cast Iron	0.7040	EN-GJS-400-15 (GGG40)	A536 60-40-18		
Nodular Cast Iron	0.7043	EN-GJS-400-18-LT (GGG40.3)	A536 60-40-18		
Cast Steel	1.0619	GP240GHGS-C25	A216 WCB		
Chrome Nickel Cast Steel	1.4308	GX5CrNi19-10	A351 CF8		
Chrome Nickel Cast Steel (low carbon)	1.4309	GX2CrNi19-11	A351 CF3		
Chrome Nickel Molybdenum Cast Steel	1.4408	GX5CrNiMo19-11-2	A351 CF8M		
Chrome Nickel Molybdenum Cast Steel (low carbon)	1.4409	GX2CrNiMo19-11-2	A351 CF3M		
Austenitic Cast Steel	1.4500	GX7NiCrMoCuNb25-20	A351 CN7M		
Austenitic - Ferritic Cast Steel (duplex)	1.4517	GX2CrNiMoCuN25-6-3-3	A890 CD4MCuN		
Austenitic - Ferritic Cast Steel (super duplex)	1.4469	GX2CrNiMoN26-7-4	A890 CE3MN		
Martenzitic Stainless Cast Steel	1.4317	GX4CrNi13-4	A352 CA6NM		
Martenzitic Stainless Cast Steel	1.4008	GX7CrNiMo12-1	A217 CA15		
Cast Bronze (tin alloy)	2.1050.01	G-CuSn10	B427 C90700		
Cast Bronze (nickel alloy)	2.0975.01	G-CuAl10Ni	B148 C95500		
Cast Bronze (Leaded)	2.1096.01	G-CuSn5ZnPb	B584 C83600		
Chrome Steel	1.4021	X20Cr13	A276 Type 420		
Chrome Steel(heat treated)	1.4021	X20Cr13	A276 Type 420+QT		
Chrome Nickel Steel	1.4301	X5CrNi18-10	A276 Type 304		
Chrome Nickel Steel (low carbon)	1.4404	X2CrNiMo17-12-2	A276 Type 316L		
Duplex (austenitic-ferritic) Steel	1.4460	X3CrNiMoN27-5-2	AISI 329		
Duplex (austenitic-ferritic) Steel	1.4462	X2CrNiMoN22-5-3	UNS S32205		

Flange Dimensions

7		Suction	& Disch	arhe (F	N 16)						
32 -	DNe/DNb	Df	,								
EN 1092	32	140	100	19	4						
Z	40	150	110	19	4						
	50	165	125	19	4						
	65	185	145	19	4						
	80	200	160	19	8						
	100	220	180	19	8						
	125	250	210	19	8						
	150	285	240	23	8						
	200	340	295	23	12						

[&]quot; n " number of holes

