

SNT

EN 733 NORM PUMPS



Handled Liquids

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

Technical Data

Discharge Flange _____ DN 32 DN 250 mm

Capacity _____ up to 1700 m³/h

Head _____ up to 100 m

Speed _____ up to 2900 rpm

Operating Temperature — -10 °C to +140 °C *

Casing Pressure (Pmax) — 10 bar (16 bar) *

(Pmax : Suction Pressure + Shut off Head)

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

Design Features

- Horizontal , radially split volute casing type , single stage, end suction centrifugal pump with closed impeller.
- Dimensionally complies with EN 733.
- In addition to 29 basic sizes conforming with EN 733, there are 17 additional sizes. Dimensions of additional sizes may differ from other suppliers.

Pump Designation

Pump Type _____

Discharge Nozzle (DN-mm) _____

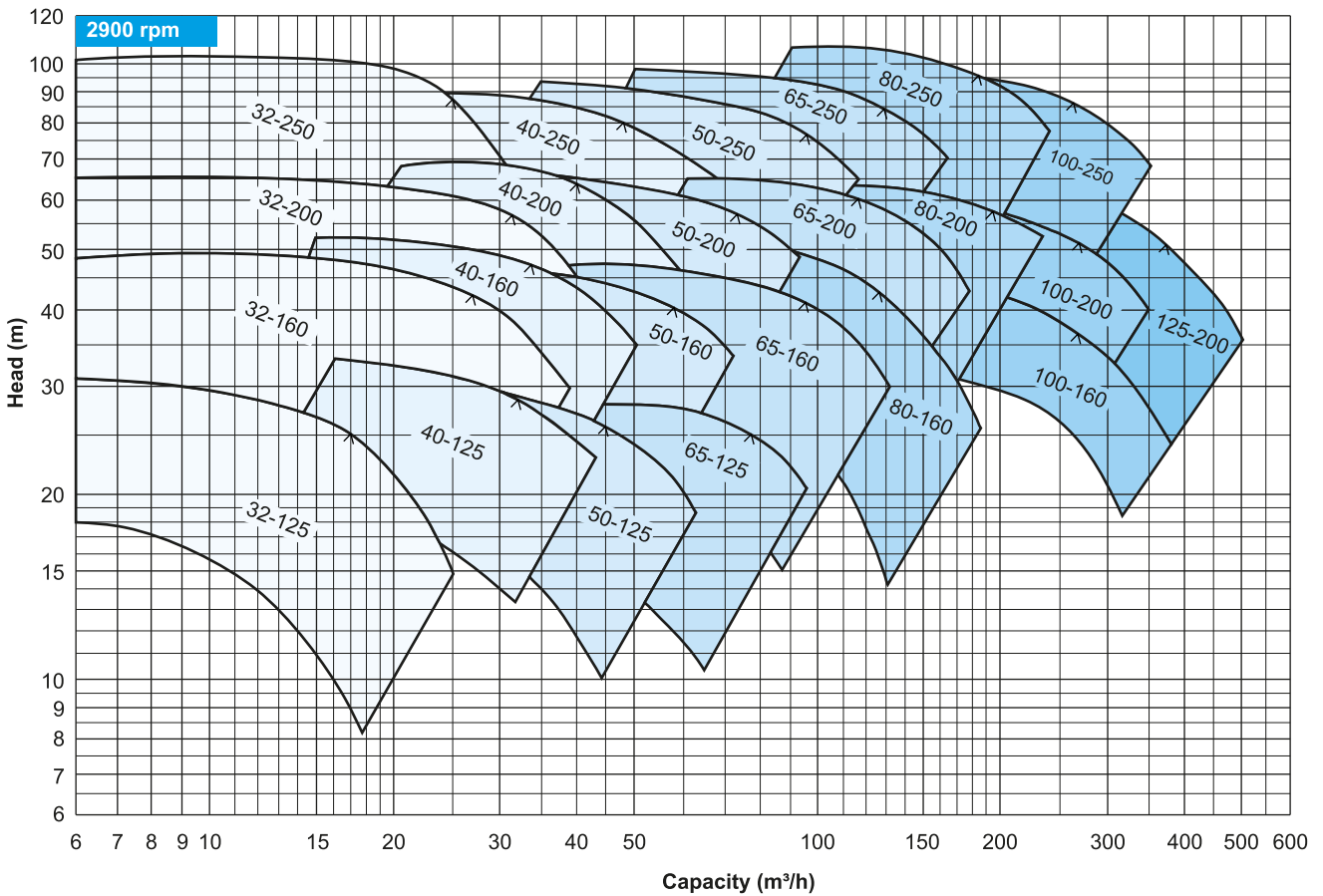
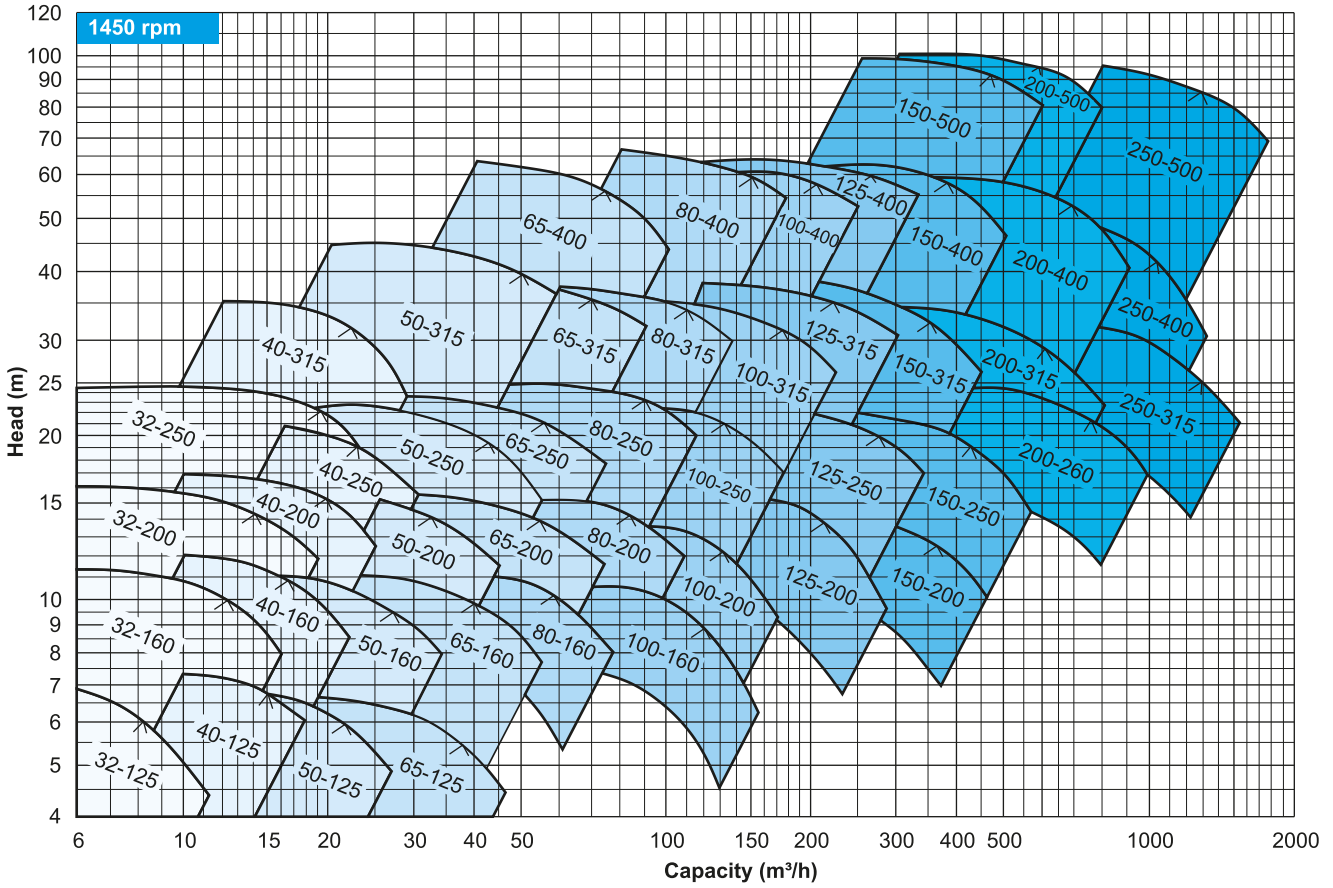
Nominal Impeller Diameter (mm) _____

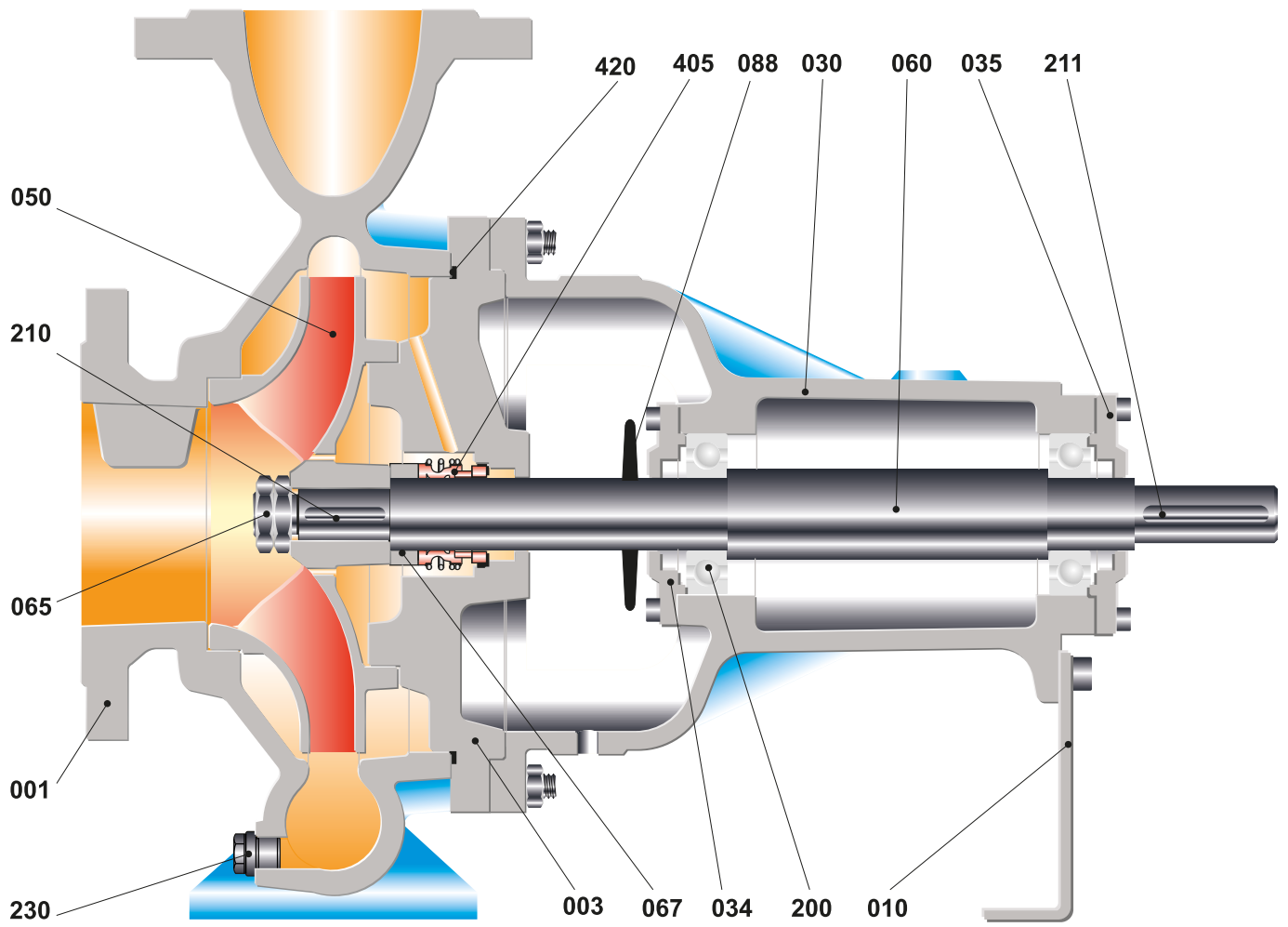
SNT 100 - 250

- Suction and discharge flanges conform to EN 1092-2 / PN 16.
- Due to the back-pull-out design, the complete bearing assembly including impeller and casing cover can be dismantled without removing the volute casing from the pipe system. (With spacer coupling application, also possible to take out the rotor group without dismantling the electric motor.)
- All impellers are balanced dynamically according to ISO 1940 class 6.3.
- Axial thrust is balanced by impeller balancing holes system.
- Direction of rotation is clockwise viewed from driver end.
- Bearings of SNT type pumps are normally "life time grease lubricated" ball bearings, except the pumps SNT 200-500 and SNT 250-500 which are always oil lubricated.

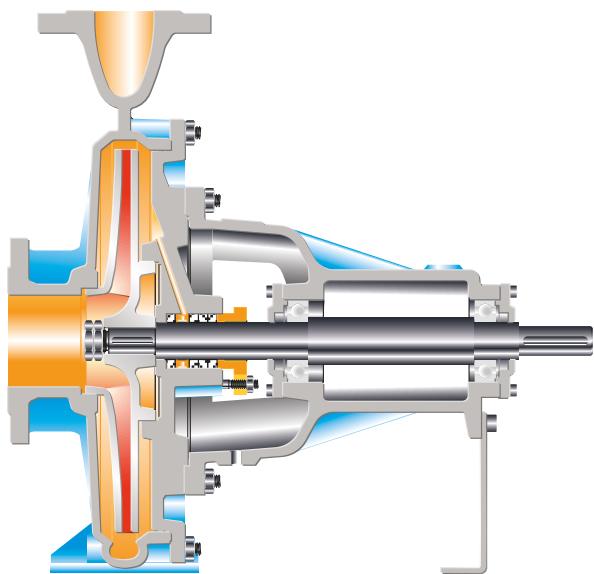
Shaft Sealing

- In standard production soft packed stuffing boxes are used.
- Depending on customer request, mechanical seals are available. In this case, pump shaft is always stainless steel.

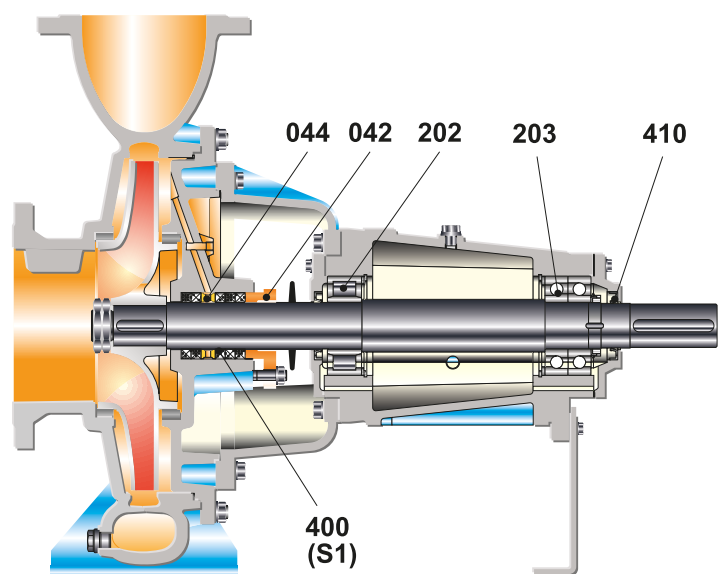




Form F1

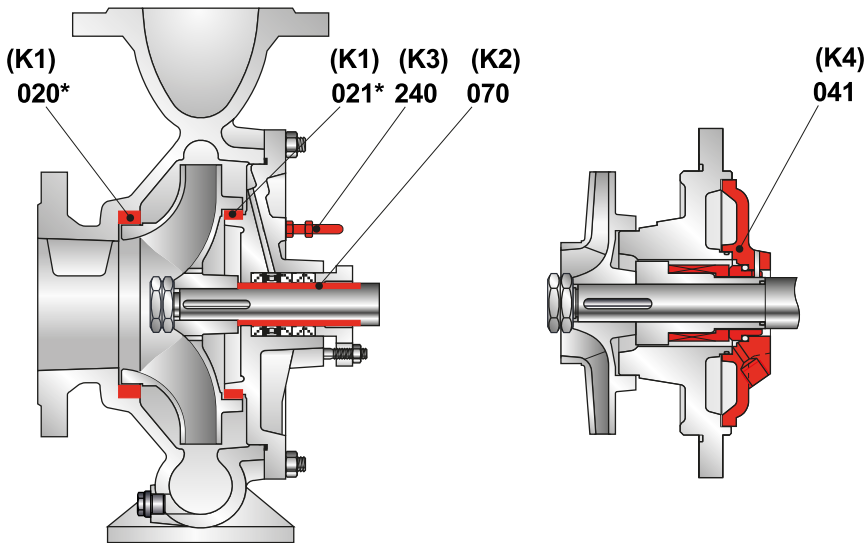


Form F2



Form F3

Design & Sealing Options

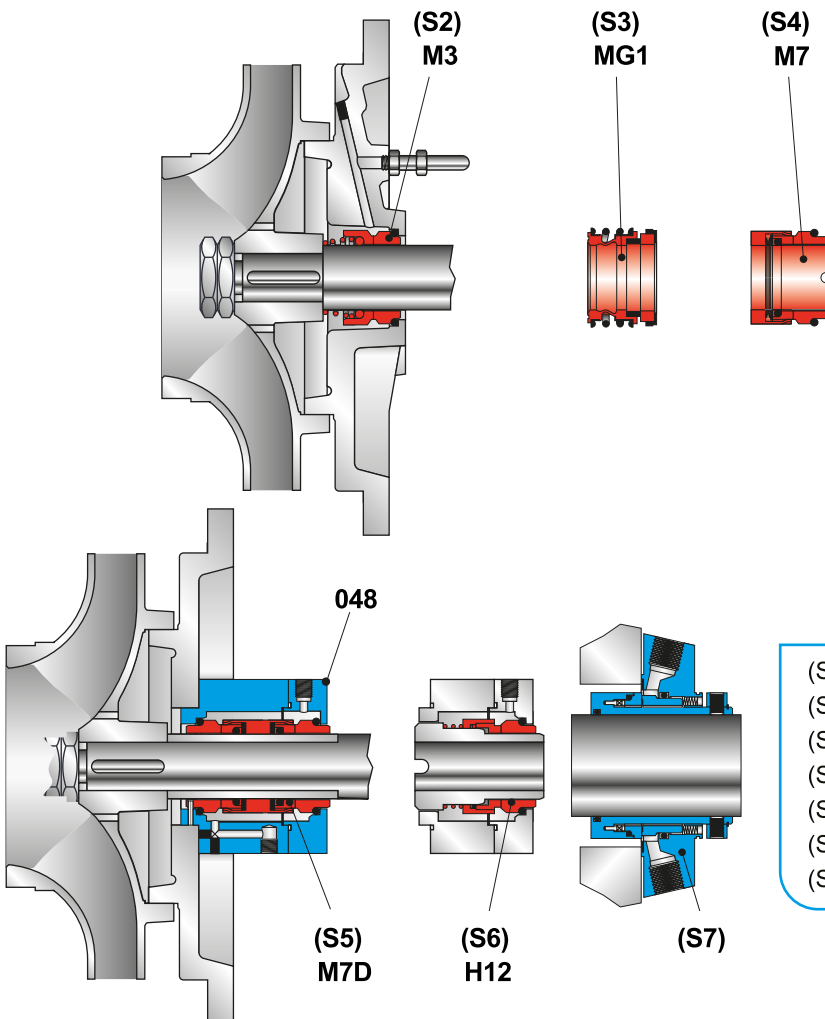


- (K1) Casing wear rings (front - back)
- (K2) Shaft sleeve
- (K3) Sealing fluid from outside source (for pumping contaminated and/or malodorous liquids)
- (K4) Stuffing box cooling (100 °C up to 140 °C)

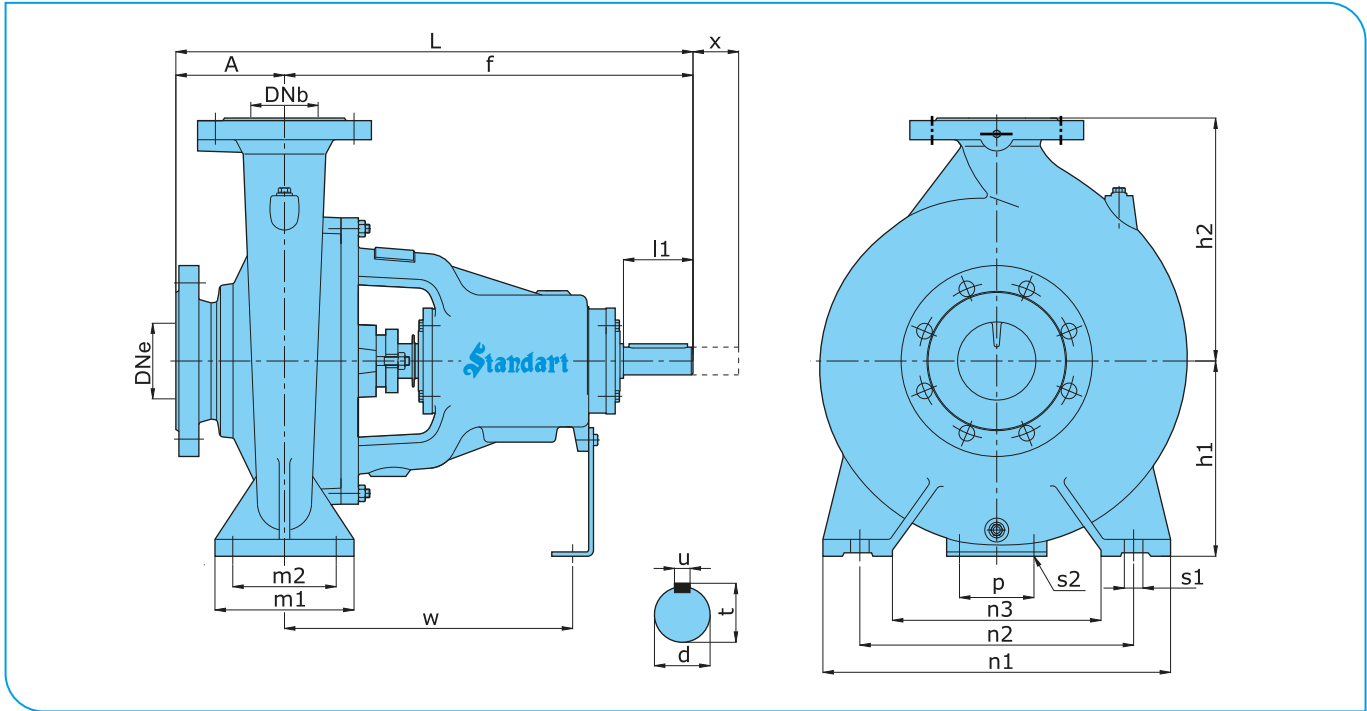
Part List

001	Volute casing
003	Casing cover
010	Frame foot
020*	Wear ring (casing)
021*	Wear ring (casing cover)
030	Bearing housing
034	Bearing cover
035	Bearing cover
041	Cooling jacket
042	Gland
044	Lantern ring
046	Mechanical seal housing
048	Mechanical seal cover
050	Impeller
060	Pump shaft
065	Impeller nut
067	Spacer sleeve
070	Shaft sleeve
088	Thrower
200	Ball bearing
202	Cylindrical roller bearing
203	Angular contact ball bearing
210	Impeller key
211	Coupling key
230	Drain plug
240	Seal tubing
400	Stuffing box packing
405	Mechanical seal
410	Oil seal
420	O-Ring

(*) Optional



- (S1) Different soft packing types (up to 100 °C)
- (S2) M3 mechanical seal (up to 10 bar - 140 °C)
- (S3) MG1 mechanical seal (up to 12 bar - 140 °C)
- (S4) M7 mechanical seal (up to 16 bar - 140 °C)
- (S5) Double mechanical seal
- (S6) Balanced mechanical seal
- (S7) Cartridge mechanical seal



Pump Size		Form	DIMENSIONS (mm)																				Weight (kg)	Space x**																	
EN 733	Additional		Overall Dimensions								Support & Foot Dimensions						Shaft End																								
		DNe	DNb	A	f	L	h1	h2	m1	m2	n1	n2	n3	s1	p	s2	w	d	l1	t	u																				
32-125		50	32	80	360	440	112	140	100	70	190	140	90	14	110	14	260	24	50	27	8	32	100																		
32-160							132	160														160		180	39																
32-200							160	180														180		225	41																
	32-250			100		460	180	225	125	95	320	250	190									53																			
40-125		65	40	80	360	440	112	140	100	70	210	160	110	14	110	14	260	24	50	27	8	53	100																		
40-160							132	160														160		180	40																
40-200							160	180														160		180	45																
40-250				100		460	180	225	125	95	320	250	190									57																			
	40-315						200	250			345	280	190									67																			
50-125		65	50	100	360	460	132	160	100	70	265	212	165	14	110	14	260	24	50	27	8	34	100																		
50-160							160	180														160		180	42																
50-200							180	225														180		200	48																
50-250				80		470	180	225	125	95	320	250	190									57																			
	50-315			125	470	595	225	280			345	280	190	19			340	32	80	35	10	90																			
65-125		80	65	100	360	460	160	180	125	95	280	212	150	14	110	14	260	24	50	27	8	40	100																		
65-160							180	200														180		225	46																
65-200							200	225														180		225	51																
65-250				100		470	200	250	160	120	360	280	200									90	140																		
65-315				125	470	595	225	280			400	315	240	19			340	32	80	35	10	105																			
	65-400			100		570	200	250			435	355	275									130																			
80-160		100	80	125	470	595	180	225	125	95	320	250	190	14	110	14	260	24	50	27	8	49	140																		
80-200							200	250														200		250	63																
80-250							225	280														200		280	95																
80-315				160	120	250	315	160	120	400	315	240	19									125																			
	80-400			100		530	655	280	355		435	355	275				360	42	110	45	12	175																			
	100-160			125		595	200	280			360	280	200									80	140																		
100-200		125	100	140	470	610	225	315	160	120	400	315	240	19	110	14	340	32	80	35	10	87																			
100-250							250	315														200		150	500	400	300	23												100	
100-315																						140	530	670	280	355			500	400	300	23			360	42	110	45	12	130	
100-400				100		595	250	315			400	315	240									180																			
	125-200			150		470	610	250	315	160	120	400	315	240	19							97	140																		
125-250		150	125	140	530	670	280	355	200	150	500	400	300	23	110	14	360	42	110	45	12	110																			
125-315																						140		530	670	280	355			500	400	300	23							180	
125-400																						100		595	315	400			550	450	350									200	
	150-200			200		470	630	280	375	200	150	500	400	300	23							150	140																		
150-250		200	150	160	530	690	315	450	200	150	550	450	350	23	110	14	360	42	110	45	12	160																			
150-315																						160		530	690	315	450			550	450	350								190	
150-400																						100		690	315	450			550	450	350									230	
	150-500			200	730	930	400	525	250	200	720	600	435	27	140	20	495	55				480	200																		
200-260		250	200	200	180	725	905	400	250	200	600	500	360	23	140	20	410	42	110	45	12	280																			
200-315																									200	180	725	905	400			600	500	360							
200-400																								200	210	925	1135	525	300	240	720	600	435	27			490	55			59
200-500				200		905	1135	525	300	240	720	600	435	27								360	180																		
250-315		300	250	230	740	970	400	525	300	240	720	600	435	27	140	20	520	55	110	59	16	640																			
250-400																									230	740	970	400	525			720	600	435							
250-500																								230	750	980	400	525			720	600	435				530	55	110	59	16
	250-500			225	940	1165	450	630														460	200																		
				225	940	1165	450	630														660																			

(**) Gap necessary for the withdrawal of the pump rotor from the driven end without the need for dismantling the motor and pipework (spacer coupling application).

Material Options

Part List	0.6025	0.7040	1.0619	1.4308	1.4309	1.4408	1.4409	1.4500	1.4517	1.4469	1.4317	2.1050.01	2.0975.01	1.0503	1.4021	1.4301	1.4306	1.4401	1.4404	1.4462	
Volute casing	●	○	○	○	○	○	○	○	○	○	○	○	○								
Casing Cover	●	○	○	○	○	○	○	○	○	○	○	○	○								
Impeller	●	○	○	○	○	○	○	○	○	○	○	○	○								
Shaft														●	○	○	○	○	○	○	○
Bearing housing	●	○																			
Wear ring (Casing)	○	○	○	○	○	○	○	○	○	○	○	○	○								
Shaft protecting sleeve														○	○	○	○	○	○	○	○
Mechanical seal (*)	EN 12756 / DIN 24960																				

(*) Optional : Depending on customer requirement or request different types and brands of mechanical seals are applicable.

● Standart manufacturing
○ Optional

Material Equivalents

Description	DIN 17007	EN-DIN	ASTM
Cast iron	0.6025	GJL-250 (GG 25)	A 48 Class 40-B
Nodular cast iron	0.7040	GJS-400-15 (GGG 40)	A 536 Gr. 60-40-18
Cast steel	1.0619	GP240GH (GS-C 25)	A 216 Gr. WCB
Chrome nickel cast steel	1.4308	G-X5 Cr Ni 19-10	A 351/743/744 Gr. CF8
Chrome nickel cast steel (low carbon)	1.4309	G-X2 Cr Ni 19-11	A 351/743/744 Gr. CF3
Chrome nickel molybdenum cast steel	1.4408	G-X5 Cr Ni Mo 19-11-2	A 351/743/744 Gr. CF8M
Chrome nickel molybdenum cast steel (low carbon)	1.4409	G-X2 Cr Ni Mo 19-11-2	A 351/743/744 CF3M
Austenitic cast steel	1.4500	G-X7 Cr Ni Mo Cu Nb 25-20	A 351/743/744 (CN7M)
Austenitic-ferritic cast steel (duplex)	1.4517	G-X2 Cr Ni Mo Cu N 25-6-3-3	A 890 Gr. 1B (CD4MCuN)
Austenitic-ferritic cast steel (super duplex)	1.4469	G-X2 Cr Ni Mo N 26-7-4	A 890 Gr. 5A (CE3MN)
Martenzitic Stainless Cast Steel	1.4317	GX4 Cr Ni 13-4	A 351/743/744 (CA6NM)
Cast bronze (tin alloy)	2.1050.01	G-Cu Sn 10	B 584 C 90700
Cast bronze (nickel alloy)	2.0975.01	G-Cu Al 10 Ni	B 148 C 95800
Carbon steel	1.0503	C 45	A 29/108/576 1045
Chrome steel	1.4021	X20 Cr 13	A 276 Type 420
Chrome nickel steel	1.4301	X5 Cr Ni 18-10	A 276 Type 304
Chrome nickel steel (low carbon)	1.4306	X2 Cr Ni 19-11	A 276 Type 304L
Chrome nickel molybdenum steel	1.4401	X5 Cr Ni Mo 17-12-2	A 276 Type 316
Chrome nickel molybdenum steel (low carbon)	1.4404	X2 Cr Ni Mo 17-12-2	A 276 Type 316 L
Duplex (austenitic-ferritic) steel	1.4462	X2 Cr Ni Mo N 22-5-3	A 276 S 31803

Flange Dimensions

DNe/DNb	Suction & Discharge (PN 16)			
	Df	k	s	n
32	140	100	19	4
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
250	405	355	28	12
300	460	410	28	12

" n " number of holes

