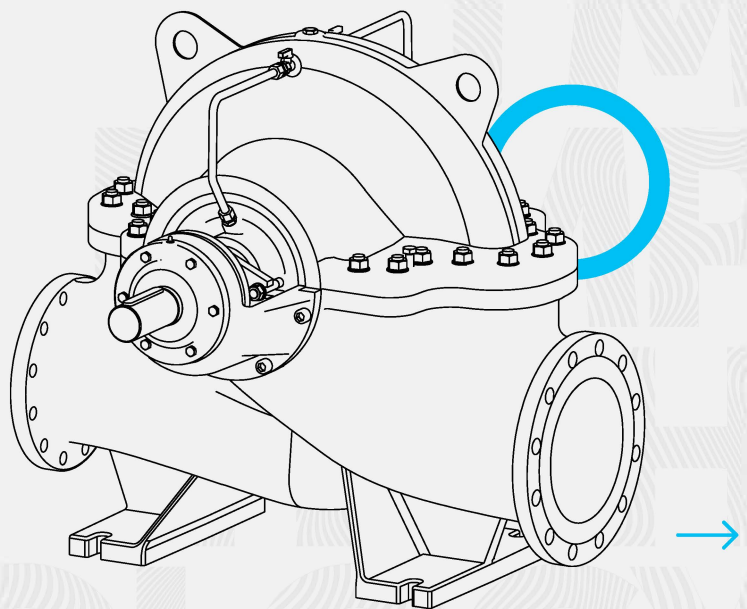




SCE Series

Double Suction Centrifugal Pump



GENERAL INFORMATION

Discharge Flange	DN 65 – DN 600
Capacity	up to 6000 m³/h
Head	up to 180 m
Working Temperature	From -20 °C to + 110 °C*
Casing Pressure (Pmax)	16 bar - 25 bar*

(Pmax: Suction Pressure + Shut off Head)

(*) Depending on the type of liquid, operating temperature and pressure. The pump material changes. Please contact our company for detailed information.

Transferable Liquids

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

Shaft Sealing

- Single, double, carter type mechanical seal or soft packing is used depending on the type of fluid and operating conditions.

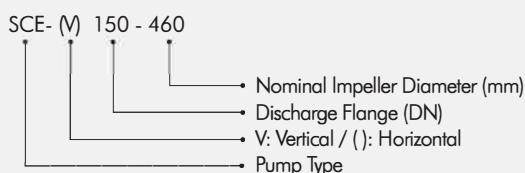
Applications

Water Treatment and Pressurization	Power Plants
Heating, Ventilating and Air Conditioning	Oil Industry
Agricultural Irrigation and Drainage	Chemical Industry
Food and Beverage Industry	Mining
Iron and Steel Industry	Marine
Building System	Fire Fighting

Design Features

- Suction and discharge flanges are on the same axis line. The double-suction design reduces axial forces by directing flow into both sides of the impeller. The double-volute design, available on most models, reduces the radial load and minimizes noise and vibration.
- Suction and discharge flanges are PN 16 according to EN 1092-2 (DIN2501).
- Seal box is cooled with water. Seals are easily dismountable, which makes replacing and fitting up additional seals easy.
- Split-case pumps could manufacturing horizontal or vertical.
- The impellers are dynamically balanced according to ISO 1940 class 6.3.
- Direction of rotation is clockwise when viewed from the motor in standard manufacture. In this case, the suction flange is on the right side. If required, the direction of rotation can be adjusted counter-clockwise. In this case, the suction flange is on the left side.
- Replaceable case wear rings protect the pump casing and reducing maintenance costs.
- Bronze shaft sleeves protect the shaft and help with fixation of the impeller.
- In horizontal installation, ball bearing with grease lubrication is used as standard. In the case of vertical installation, the bearing with fluid lubrication is used on the lower side and the ball bearing with grease lubrication is used on the upper side.

Pump Code



INFORMATII GENERALE

Flansa refulare	DN 65 – DN 600
Debit	pana la 6000 m³/h
Inaltime de pompare	pana la 180 m
Temperatura de lucru	de la -20 °C la + 110 °C*
Presiune carcasa (Pmax)	16 bar - 25 bar*

(Pmax: Presiunea la aspiratie + presiunea la supapa inchisa)

(*) In functie de tipul lichidului, presiunea si temperatura de operare. Materialele pompei se schimba. Pentru mai multe informatii, contactati-ne.

Lichide veliculate

- Lichide curate sau slab contaminate cu vasciozitatea scazuta fara solide in dispersie.

Etansarea la arbore

- Etansare mecanica simpla, dubla sau etansare moale in functie de lichidul vehiculat si conditiile de operare

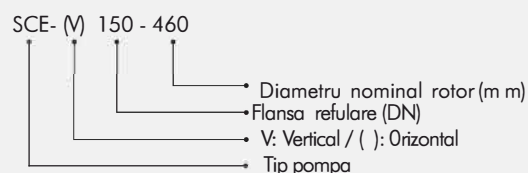
Domenii de functionare

Tratarea apei si presurizare	Centrale energetice
Incalzire, Ventilare si aer conditionat	Industria petroliera
Irigatii si drenari	Industria chimica
Industria alimentara si a bauturilor	Minerit
Industria otelului si a fierului	Naval
Sisteme pentru constructii	Stingerea incendiilor

Caracteristici

- Flanșele de aspirație și refulare sunt pe aceeași linie de axe. Designul cu dublă aspirație reduce forțele axiale prin direcționarea fluxului în ambele părți ale rotorului. Designul cu dublu volut, disponibil pe majoritatea modelelor, reduce sarcina radială și minimizează zgomotul și vibrațiile.
- Flanșele de aspirație și refulare sunt PN 16 conform EN 1092 –2 (DIN2501).
- Cutia de etanșare este răcită cu apă. Garniturile sunt ușor de demontat, ceea ce face înlocuirea și montarea etanșărilor suplimentare cu ușurință.
- Pompele cu carcasă divizată pot produce orizontală sau verticală.
- Rotoarele sunt echilibrate dinamic conform ISO 1940 clasa 6.3.
- Sensul de rotație este în sensul acelor de ceasornic când este privit de la motorul în fabricație standard. În acest caz, flanșa de aspirație este pe partea dreaptă. Dacă este necesar, sensul de rotație poate fi reglat în sens invers acelor de ceasornic. În acest caz, flanșa de aspirație este pe partea stângă.
- Inelele de uzură a carcasei înlocuibile proiectează carcasa pompei și reduc costurile de întreținere.
- Manșoanele din bronz proiectează arborele și ajută la fixarea rotorului.
- La instalarea orizontală, rulmentul bolii cu lubrifiere cu grăsime este utilizat ca standard. În cazul instalării verticale, pe partea inferioară se folosește inelul suport cu lubrifiere fluidă, iar pe partea superioară se folosește inelul suport cu lubrifiere cu grăsime.

Cod pompa



MATERIAL OPTIONS

OPTIUNI DE MATERIALE

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	Lista piese
Volute Casing																							Carcasa
Impeller																							Rotor
Shaft																							Arbore
Bearing Housing																							Corp lagar
Wear Ring																							Inel uzura
Shaft Wear Bushing																							Bucsa de uzura
Mech. Seal (*)	EN 12756 / DIN 24250																					Etansare mecanica (*)	

(*) Options: Different brand and type mechanical seal can be use can according to customer request.

- Standard Manufacturing
○ Optional

(*) Optiuni: Tipul si producatorul etansarii mecanice se pot alege si in functie de cerintele clientului.

- Standard
○ Optional

DESCRIPTIONS

☒ DIN

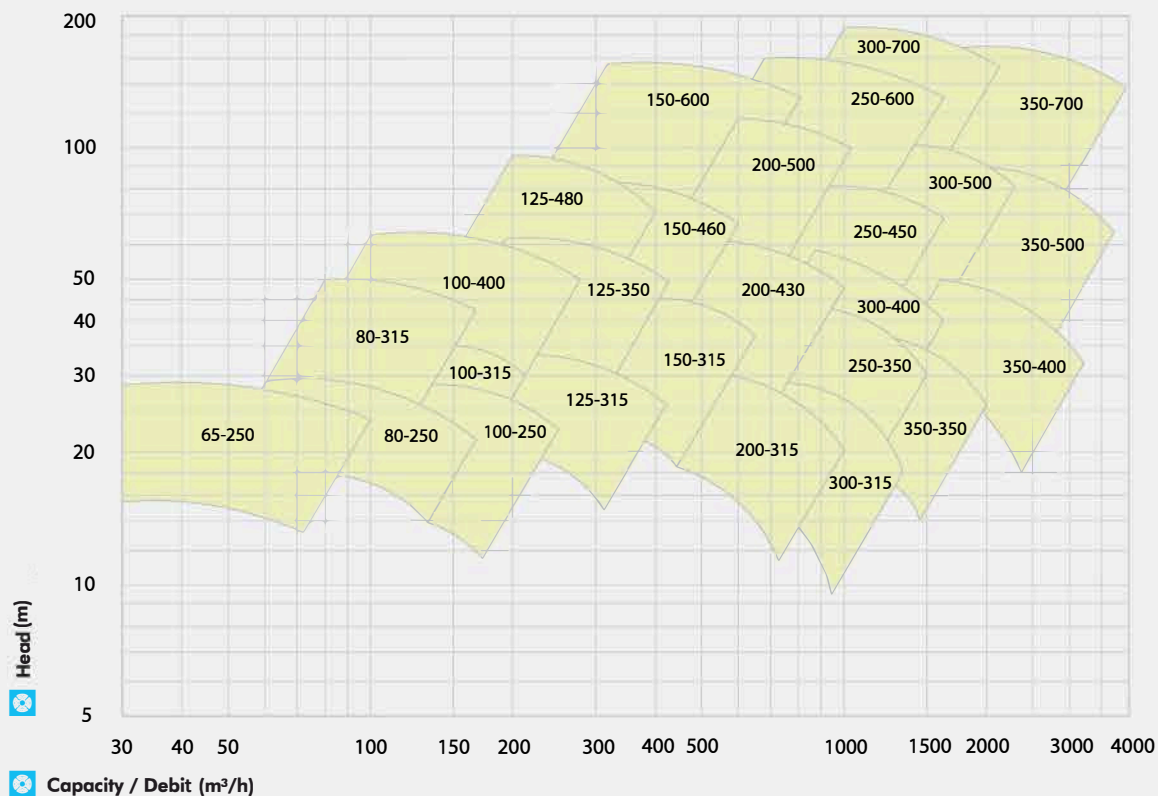
☒ EN

☒ AISI/SAE/ASTM

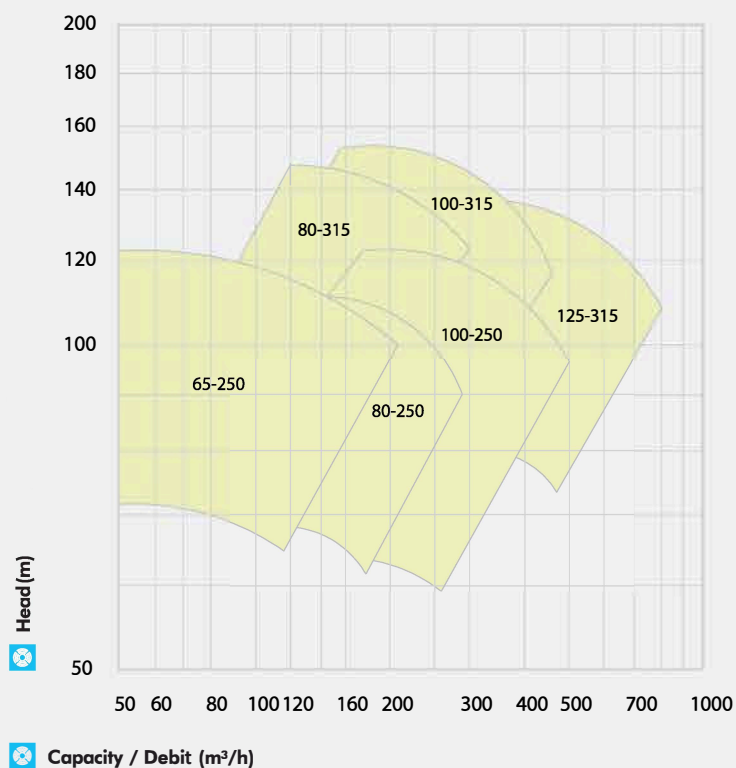
Descriere

Cast Iron	0.6025	EN-GJL-250 (GG 25)	A 48 Class 40-B	Fontă
Ductile Iron Casting	0.7040	EN-GJS-400-18-LT (GGG 40)	A 536 60-40-18	Turnare fontă ductilă
Ductile Iron Casting	0.7043	EN-GJS-400-18-LT (GGG 40.3)	A 536 60-40-18	Turnare fontă ductilă
Steel Casting	1.0619	GP 240 GHGS-C25	A216 WCB	Turnare de oțel
Chrome Nickel Steel Casting	1.4308	G-X5 Cr Ni 19-10	A 351 CF8	Turnare din oțel cu nichel cromat
Chrome Nickel Steel Casting (Low Carbon)	1.4309	G-X2 Cr Ni 19-11	A 351 CF3	Turnare oțel cu nichel cromat (carbon)
Chrome Nickel Molybdenum Steel Casting	1.4408	G-X5 Cr Ni Mo 19-11-2	A 351 CF8M	Turnare din oțel crom nichel molibden
Chrome Nickel Molybdenum Steel Casting (L.C.)	1.4409	G-X2 Cr Ni Mo 19-11-2	A 351 CF3M	Turnare de oțel crom nichel molibden (L.C.)
Austenitic Steel Casting	1.4500	G-X7 Cr Ni Mo Cu Nb 25-20	A 351 CN7M	Turnare de oțel austenitic
Austenitic - Ferritic Steel Casting (Duplex)	1.4517	G-X2 Cr Ni Mo Cu N 25-6-3-3	A 890 CD4MCuN	Turnare din oțel austenitic - feritic (duplex)
Austenitic - Ferritic Steel Casting (S.D.)	1.4469	G-X2 Cr Ni Mo N 26-7-4	A 890 CE3MN	Turnare de oțel austenitic - feritic (S.D.)
Martensitic Stainless Steel Casting	1.4317	G-X4 Cr Ni 13-4	A 352 CA6NM	Turnare din oțel inoxidabil martensitic
Martensitic Stainless Steel Casting	1.4008	G-X7 Cr Ni Mo 12-1	A 217 CA15	Turnare de bronz (coasitor) Turnare de
Bronze Casting (Tinned)	2.1050.01	G-Cu Sn 10	B 427 C90700	bronz (aliaj de nichel) Turnare de
Bronze Casting (Nickel Alloy)	2.0975.01	G-Cu Al10Ni	B 148 C95500	bronz (plumb)
Bronze Casting (Leaded)	2.1096.01	G-Cu Sn 5 Zn Pb	B 584 C83600	Oțel carbon
Chromium Steel	1.4021	X20 Cr13	A 276 Type 420	Oțel Crom
Chrome Steel (Heat Treatment)	1.4021	X20 Cr13	A 276 Type 420+QT	Oțel cromat (tratament termic) Oțel
Chrome Nickel Steel	1.4301	X5 Cr Ni 18-10	A 276 Type 304	cromat cu nichel
Chrome Nickel Molybdenum Steel (L.C.)	1.4404	X2 Cr Ni Mo 17-12-2	A 276 Type 316L	Oțel crom nichel molybdenum (L.C.)
Duplex (Austenitic-Ferritic) Steel	1.4460	X3 Cr Ni Mo N 27-5-2	AISI 329	Oțel duplex (austenitic-feritic).
Duplex (Austenitic-Ferritic) Steel	1.4462	X2 Cr Ni Mo N 22-5-3	UNS S32205	Oțel duplex (austenitic-feritic).

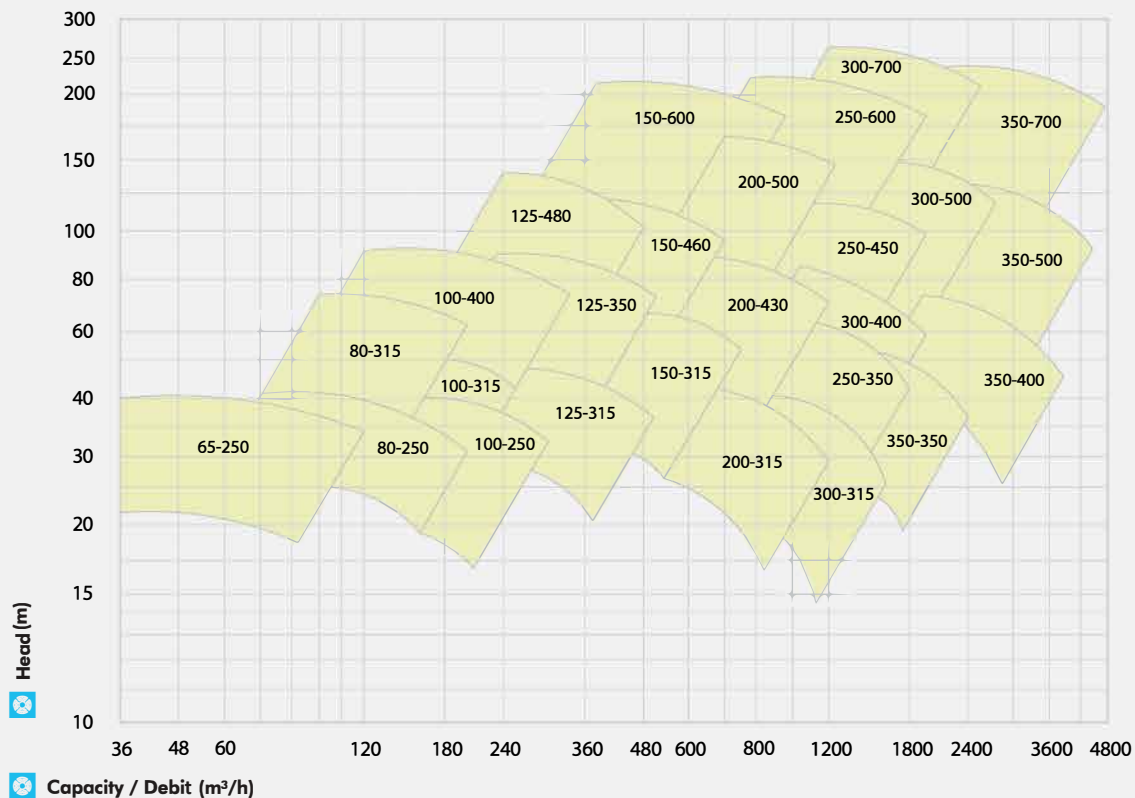
1450 rpm / (d/d) (50 Hz)



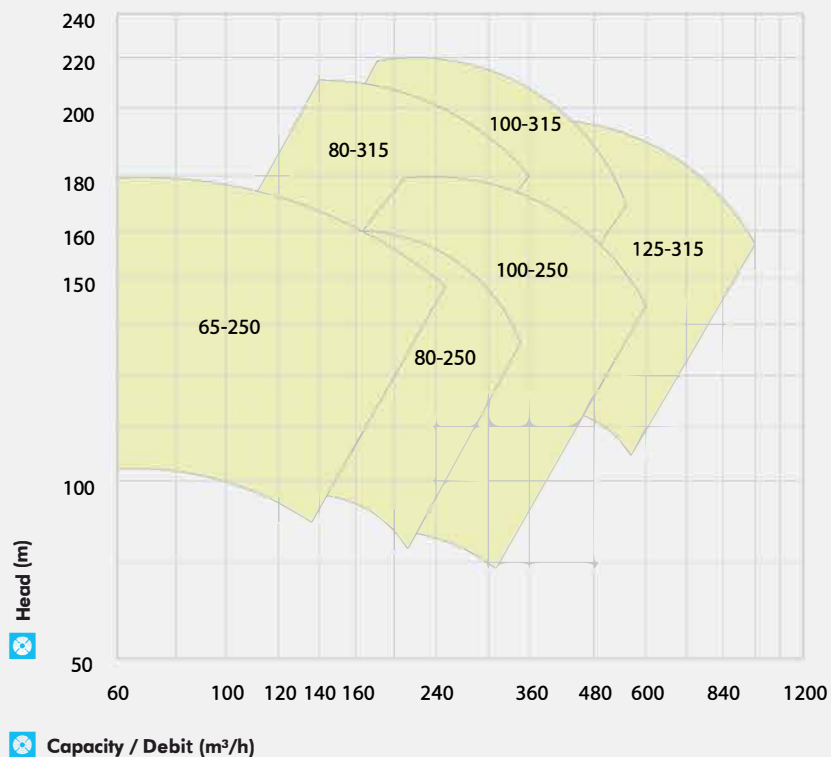
2900 rpm / (d/d) (50 Hz)



1750 rpm / (d/d) (60 Hz)

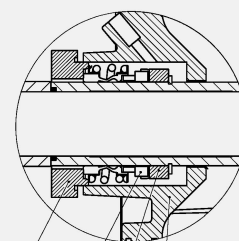
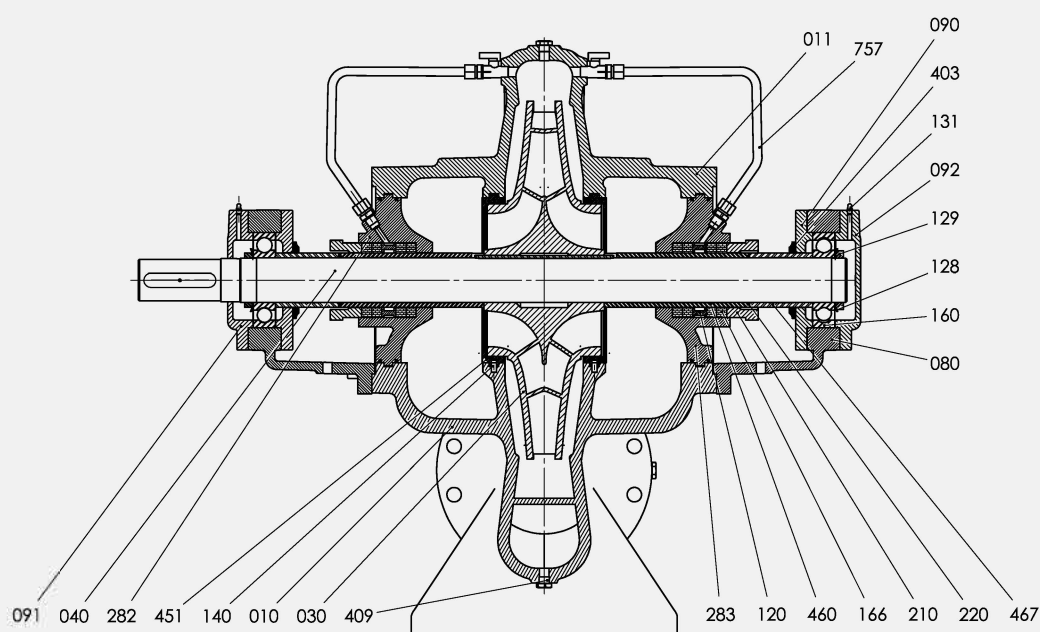


3500 rpm / (d/d) (60 Hz)



SECTIONAL VIEW

SECȚIUNE

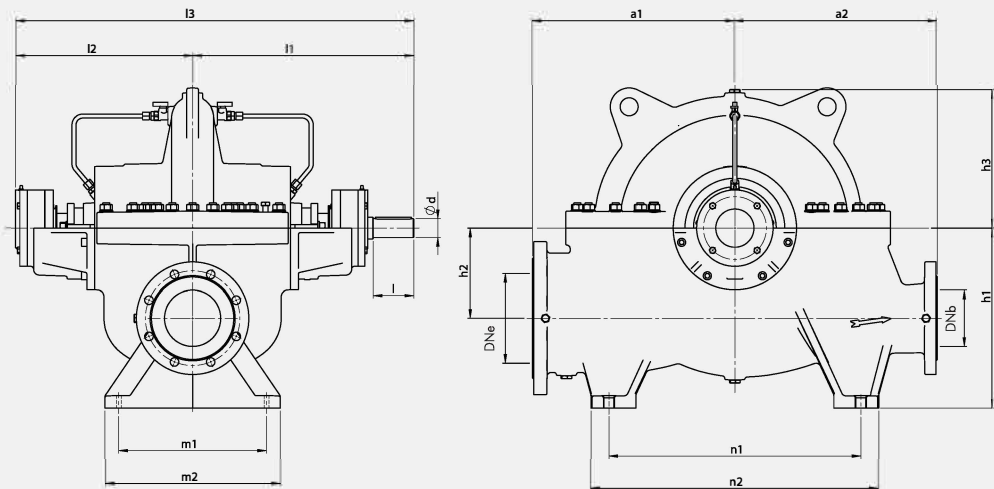


210 165 164 280
Mechanical Seal Application
Varianta cu etansare mecanica

Part List

Lista piese

Volute Casing (Lower)	010	
Volute Casing (Up)	011	
Impeller	030	
Shaft	040	
Bearing Housing	080	
Bearing Cover (Inside)	090	
Bearing Cover (Coupling)	091	
Bearing Cover (Outside)	092	
Flushing Pipe	120	
Protection Sheet	128	
Nut	129	
Grease Nipple	131	
Grooved Pin	140	
Bearing	160	
Mechanical Seal Setting Sleeve	164	
Mechanical Seal	165	
Soft Packing	166	
Key	170	
Connection Support	210	
O-Ring	220	
Mechanical Seal Box	280	
Stuffing Box	282	
Stuffing Box	283	
Throw Protection	403	
Drain Plug	409	
Wear Ring	451	
Shaft Seal	460	
Setting Sleeve	467	
Flushing Pipe	757	



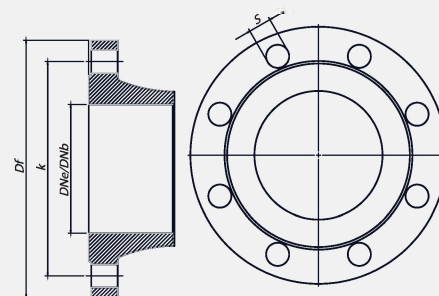
Pump Type	Dimensions (mm)																	Weight (kg)	
	DNe	DNb	Outside Dimensions									Supporting Foot Dimensions					Shaft Dimensions		
			l1	l2	l3	a1	a2	h1	h2	h3	n1	n2	m1	m2	s	ød	l		
65-250	100	65	390	305	695	320	280	300	140	200	380	460	230	300	20	35	75	157	
80-200	125	80	400	310	710	320	280	300	140	200	400	460	230	300	20	35	80	165	
80-250	125	80	395	305	700	320	280	300	140	220	405	470	230	300	20	35	75	162	
80-315	125	80	395	305	700	360	300	335	140	260	400	490	230	300	20	35	75	200	
100-250	150	100	450	350	800	360	310	355	170	225	400	480	285	340	20	42	90	223	
100-315	150	100	450	350	800	360	310	355	170	245	400	480	285	340	20	42	90	230	
100-400	150	100	450	350	800	420	370	355	170	295	460	560	285	340	20	42	90	303	
125-315	200	125	525	405	930	420	370	400	200	295	460	540	340	380	22	55	110	360	
125-350	200	125	525	405	930	470	450	400	200	310	540	660	330	380	22	55	110	402	
125-450	200	125	585	450	1035	500	450	400	200	350	540	640	320	380	22	55	120	420	
125-480	200	125	490	395	885	450	450	400	200	310	560	640	350	390	22	42	90	400	
150-315	200	150	525	405	930	470	400	400	200	330	540	640	330	380	22	55	110	400	
150-460	200	150	545	425	970	450	450	400	200	300	540	640	330	380	22	55	110	430	
150-600	250	150	640	500	1140	550	500	560	300	440	540	640	340	420	22	65	130	780	
200-315	250	200	640	500	1140	500	450	500	240	335	540	640	370	420	22	65	130	590	
200-400	250	200	645	500	1145	500	450	500	240	360	540	640	360	420	22	65	130	615	
200-430	250	200	640	450	1060	500	500	500	240	325	540	650	380	450	24	55	110	630	
200-500	250	200	610	500	1140	550	500	560	300	375	620	720	370	420	22	65	130	690	
250-350	300	250	645	500	1145	600	500	600	300	390	620	720	360	420	22	65	130	680	
250-450	300	250	645	500	1145	600	500	600	300	415	620	720	360	420	22	65	130	780	
250-600	300	250	720	540	1260	650	550	600	300	430	620	710	415	485	26	80	170	1200	
300-315	350	300	640	500	1140	600	500	630	300	400	620	720	360	420	22	65	130	700	
300-400	400	300	665	510	1175	630	560	630	320	385	680	800	440	520	22	60	140	930	
300-500	400	300	755	585	1340	700	750	710	350	425	700	800	420	520	26	80	170	1500	
300-700	400	300	865	675	1540	750	800	710	350	470	720	880	420	520	26	100	180	1650	
350-350	400	350	770	620	1390	700	550	670	350	450	720	800	440	520	26	75	140	1120	
350-400	500	350	770	620	1390	800	600	800	380	505	800	960	520	600	26	75	140	1410	
350-500	500	350	755	585	1340	800	600	800	400	435	740	900	500	600	26	80	170	1435	
350-600	500	350	900	715	1615	700	700	810	470	503	750	900	520	600	28	100	180	1900	
350-700	500	350	865	675	1540	850	750	850	450	525	720	880	500	600	26	100	180	2000	
400-800	600	400	1035	810	1845	900	900	880	450	565	950	1120	630	740	26	105	220	3400	

Group / Grup	Pump Type / Pompa Tip	Shaft End Diameter Diametru arbore	Mechanical Seal Diameter Diametru Etansare Mecanica	Bearing Type Tip Rulment
A	65-250	35	50	2X6308
A	80-200	35	50	2X6308
A	80-250	35	50	2X6308
A	80-315	35	50	2X6308
B	100-250	42	60	2X6310
B	100-315	42	60	2X6310
B	100-400	42	60	2X6310
B	125-480	42	60	2X6310
C	125-315	55	70	2X6312
C	125-350	55	70	2X6312
C	125-450	55	70	2X6312
C	150-315	55	70	2X6312
C	150-460	55	70	2X6312
C	200-430	55	70	2X6312
D	150-600	65	80	2X6314
D	200-315	65	80	2X6314
D	200-400	65	80	2X6314
D	200-500	65	80	2X6314
D	250-350	65	80	2X6314
D	250-450	65	80	2X6314
D	300-315	65	80	2X6314
D	300-400	60	80	2X6313
E	350-350	75	100	2X6317
E	350-400	75	100	2X6317
F	250-600	80	100	2X6319
F	300-500	80	100	2X6319
F	350-500	80	100	2X6319
G	300-700	100	120	2X6322
G	350-600	100	120	2X6322
G	350-700	100	120	2X6322
H	400-800	105	120	6324 - Nu324

FLANGE DIMENSIONS

DIMENSIUNI FLANSE

Pump Type	Suction & Discharge (PN 16)				Suction & Discharge (PN 25)			
	Df	k	s	n	Df	k	s	n
65	185	145	19	4	185	145	19	8
80	200	160	19	8	200	160	19	8
100	220	180	19	8	235	190	23	8
125	250	210	19	8	270	220	28	8
150	285	240	24	8	300	250	28	8
200	340	295	24	12	360	310	28	12
250	405	355	28	12	425	370	31	12
300	460	410	28	12	485	430	31	16
350	520	470	28	16	555	490	34	16
400	580	525	31	16	620	550	37	16
500	715	650	34	20	730	660	37	20
600	840	770	37	20	845	770	41	20



○ TS EN 1092 - 2 ○ "n" Number of Holes / Numar gauri

SEAL SOLUTIONS

TIPURI DE ETANSARI

Packing Type	Packing Specifications / Specificatii etansare	
	Temperature	Pressure
MG1	t = -20 °C ... +85 °C	p1 = 16 bar (230 PSI)
	t = +85 °C ... +100 °C (*)	p1 = 16 bar (230 PSI) (*)
H12N	t = +100 °C ... +140 °C	p1 = 25 bar (363 PSI)
M7N	t = -20 °C ... +220 °C	p1 = 25 bar (363 PSI)
Soft Packing / Yumuşak Salmastra	t = -20 °C ... +100 °C	p1 = 10 bar (145 PSI)
	t = -20 °C ... +140 °C (*)	p1 = 25 bar (230 PSI) (*)
CARTEX - DN	t = -20 °C ... +220 °C	p1 = 25 bar (363 PSI)