



CE



SN-M SERIES PUMP

Designed For Building Systems, Power Plants and Cooling
Quite and High Efficiency
Pump Dimensions are Acceptable TS EN 733 Standart

SN-M SERİSİ POMPA

Enerji Santralleri, Soğutma ve Bina Sistemleri için Tasarlanmıştır.
Sessiz ve Yüksek Verimli
Pompa Ölçüleri TS EN 733 Standatlarına Uygundur.



Özkan

POMPA SANAYİ

www.ozkanpompa.com.tr

1. General Information / Genel Bilgiler

Discharge Flange	: DN 32 ... DN 150 mm
Capacity	: 550 m ³ /h
Head	: 105 m
Speed	: 1450-2900 d/dak
Operating Temperature	: from -10°C to 105°C (140°C optional)
Pressure (Pmax)*	: 10 bar / 16 bar (optional)
*(Pmax= Suction Pressure + Head in Close Valve)	

Basma Flanşı	: DN 32 ... DN 150 mm
Debi	: 550 m ³ /h
Basma Yüksekliği	: 105 m
Hız	: 1450-2900 d/dak
Çalışma Sıcaklığı	: -10°C' den 105°C (140°C opsiyonel)
Gövde Basıncı (Pmaks)*	: 10 bar / 16 bar (opsiyonel)
*(Pmaks= Emme Basıncı + Kapalı Vanadaki Basma Yüksekliği)	

Dischargeable Liquids

Without solid particles and fibers, clean or slightly dirty, low-viscosity liquids.

Basılabilen Sıvılar

Katı parçacıklar ve elyaf bulunmayan, temiz veya çok hafif kirli, düşük viskoziteli sıvılar.

Usage Areas

- Building systems
- Agricultural irrigation
- Power plants
- Food Industry
- Marine
- Petrol-Chemical Industry
- Heating
- Cooling
- Pressurization
- Iron-Steel Industry

Kullanım Yerleri

- Bina sistemleri
- Tarımsal sulama
- Enerji santralleri
- Gıda Endüstrisi
- Denizcilik
- Petrol-Kimya Endüstrisi
- Isıtma
- Soğutma
- Basınçlandırma
- Demir-Çelik Endüstrisi

2. Materials / Malzemeler



	MATERIAL NAME MALZEME ADI	EN-DIN	ASTM
VOLUTE SALYANGOZ	Cast Iron Pik Döküm	GJL-250 (GG 25)	A 48 Class 40-B
	*Ductile Cast Iron *Sfero Döküm	GJS-400-15 (GGG 40)	A 536 Gr. 60-40-18
	*Cast Steel *Çelik Döküm	GP240GH (GS-C 25)	A 216 Gr. WCB
	*Cast Bronze *Bronz Döküm	G-Cu Sn 10	B 584 C 90700
IMPELLER ÇARK	*Chrome Steel *Kromlu Çelik	X20 Cr13	A 276 Type 420
	*Chrome Nickel Steel *Krom Nikel Çelik	X5 Cr Ni 18-10	A 276 Type 304
	*Chrome Nickel Steel (Low Carbon) *Krom Nikel Çelik (Düşük Karbon)	X2 Cr Ni 19-11	A 276 Type 304L
	*Chrome Nickel Molybdenum Steel *Krom Nikel Molibdenli Çelik	X5 Cr Ni Mo 17-12-2	A 276 Type 316
	*Chrome Nickel Molybdenum Steel (Low Carbon) *Krom Nikel Molibdenli Çelik (Düşük Karbon)	X2 Cr Ni Mo 17-12-2	A 276 Type 316L

	MATERIAL NAME MALZEME ADI	EN-DIN	ASTM
SHAFT MİL	Chrome Steel Kromlu Çelik	X20 Cr13	A 276 Type 420
	*Carbon Steel *Karbonlu Çelik	C 45	A 29/108/576 1045
	*Chrome Nickel Steel *Krom Nikel Çelik	X5 Cr Ni 18-10	A 276 Type 304
	*Chrome Nickel Steel (Low Carbon) *Krom Nikel Çelik (Düşük Karbon)	X2 Cr Ni 19-11	A 276 Type 304L
	*Chrome Nickel Molybdenum Steel *Krom Nikel Molibdenli Çelik	X5 Cr Ni Mo 17-12-2	A 276 Type 316
	*Chrome Nickel Molybdenum Steel (Low Carbon) *Krom Nikel Molibdenli Çelik (Düşük Karbon)	X2 Cr Ni Mo 17-12-2	A 276 Type 316L
	*Duplex (Austenitic-Ferritic) Steel *Dubleks (Östenitik-Ferritik) Çelik	X2 Cr Ni Mo N 22-5-3	A 276 (32205)



*= Optional / Opsiyonel

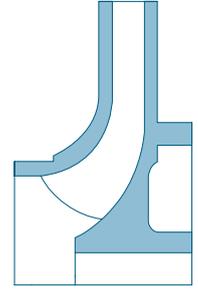
3. Impeller / Çark

3.1-Closed Impellers

The closed impeller consists of radial vanes (typically 3-8 in number), which are enclosed from both sides by two discs termed 'shrouds'. These have a wear ring on the suction eye and may or may not have one on the back shroud. Impellers that do not have a wear ring at the back typically have back vanes. Pumps with closed type impellers and wear rings on both sides have a higher efficiency.

3.1-Kapalı Çarklar

Kapalı çarklar, iki tarafından da "örtü" olarak isimlendirilen disk şeklinde yüzey ile çevrelenmiş ve sayıları genellikle 3 ile 8 arasında değişen radyal kanatlardan oluşurlar. Emme girişinde aşınma halkası bulunurken, arka kısmında bu aşınma halkası opsiyoneldir. Arka kısmında aşınma halkası bulunmayan modellerinde genellikle geri kanat bulunur. İki tarafında da aşınma halkası bulunan kapalı çarka sahip pompalar, diğerlerine nazaran yüksek verime sahiptirler.

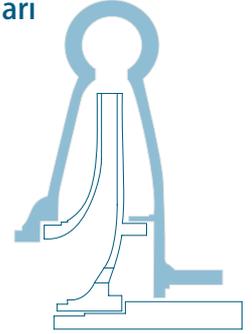


3.2-Balancing Hole and Wearing Rings

For SMN series of Impeller, the balancing holes drilled on the back shroud of the impeller play an important role in reducing the axial thrust. Due to these holes, the pressure in the region under the back wearing ring is reduced to suction pressure. However, some studies have indicated that the pressure in this region is 2-10% of the differential pressure depending on the diameter of the balancing holes.

3.2- Dengeleme delikleri ve Aşınma Halkaları

SMN serisinin çarklarında, çarkın arka kısmına dengeleme delikleri açılır. Bu delikler aksel kuvvetlerin azaltılmasında önemli rol oynar. Bu delikler sayesinde çarkın arka yüzündeki aşınma halkası içerisinde kalan alandaki basınç, emme basıncına kadar düşürülür. Bu konu üzerinde yapılan bazı çalışmalar ise bahsi geçen bölgede, dengeleme deliklerinin çapına bağlı olarak %2 ile %10 arasında basınç farklarının oluşacağını göstermiştir.



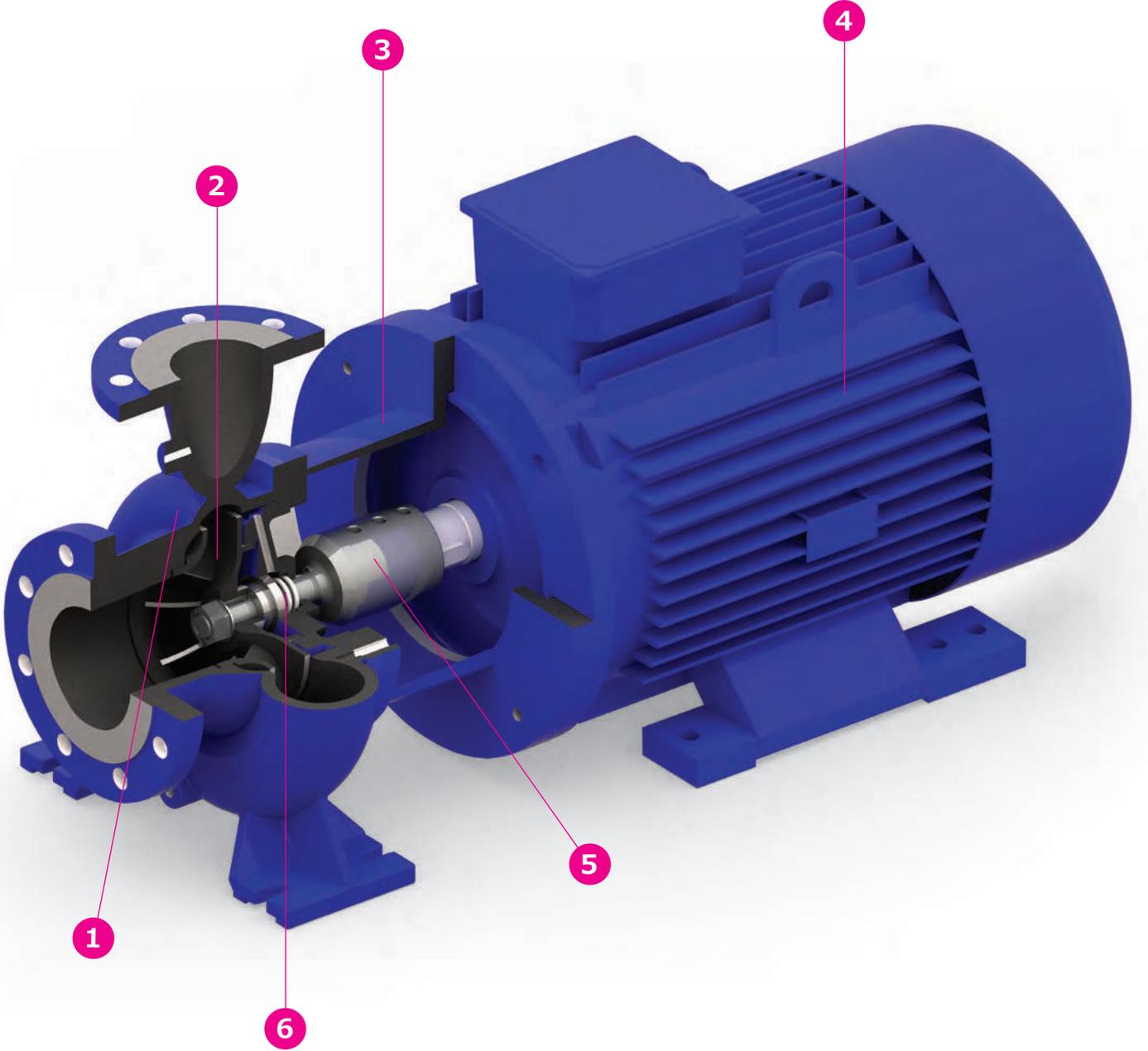
All impellers are dynamically balanced according to ISO 1940 Class 6.3.

Bütün çarklar ISO 1940 class 6.3'e uygun dinamik olarak dengelenmiştir.

4. Seal / Salmastra

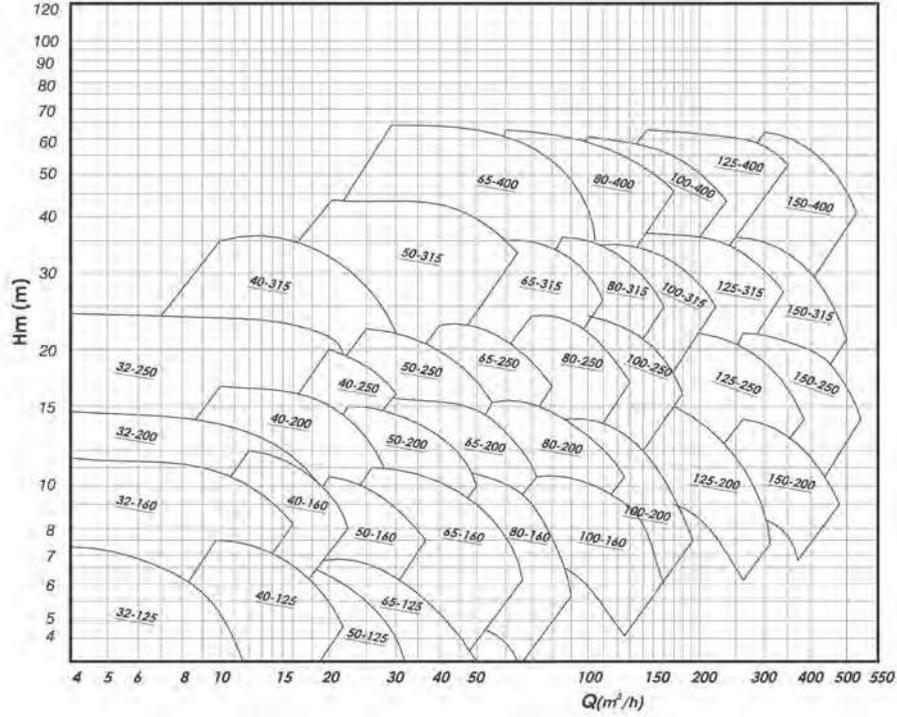
Parts Parçalar	Seal Face Döner Yüzey	Seat Sabit Yüzey	Elastomer Elastomer	Springs Yaylar	Metal Parts Metal Parçalar		
Seals Salmastralar	MG 1	Carbon Graphite Antimony Impregnated	Silicon Carbide	NBR	-	CrNiMo Steel (G)	Standart
		Silicon Carbide	Special Cast CrMo Steel	EPDM	-	Hastelloy C-4	Opsiyonel
		Tungsten Carbide	Aluminium oxide	FKM	-	-	
		-	Tungsten	HNBR	-	-	
M7N	Special Cast CrMo Steel	Carbon Graphite Antimony Impregnated	EPDM (E)	CrNiMo Steel(G)	CrNiMo Steel (G)	Standart	
		Silicon Carbide	Carbon Graphite Resin Impregnated	NBR (P)	-	Duplex (G1)	Opsiyonel
		Aluminium oxide	-	FKM (V)	-	-	
		-	-	FFKM (K)	-	-	

	Application Kullanım Yerleri	Pressure Basınç	Temperature Sıcaklık
MG1	Water, Slightly Dirty Water Su, Hafif Kirli Su	16 bar (230 PSI)	-20°C ... 80°C / *20°C ... 140°C -4°F ... 176°F / *4°F ... 284°F
M7N	Petroleum, Process Industry, Chemical Industry Petrol, İşlemci Endüstrisi, Kimyasal Endüstri	16 bar (233 PSI) *25 bar (363 PSI)	-50°C ... 200°C -58°F ... 392°F



1	- Volute	Salyangoz
2	- Impeler	Çark
3	- Interim Part	Ara Parça
4	- Motor	Motor
5	- Shaft	Mil
6	- Mechanical Seal	Mekanik Salmastra

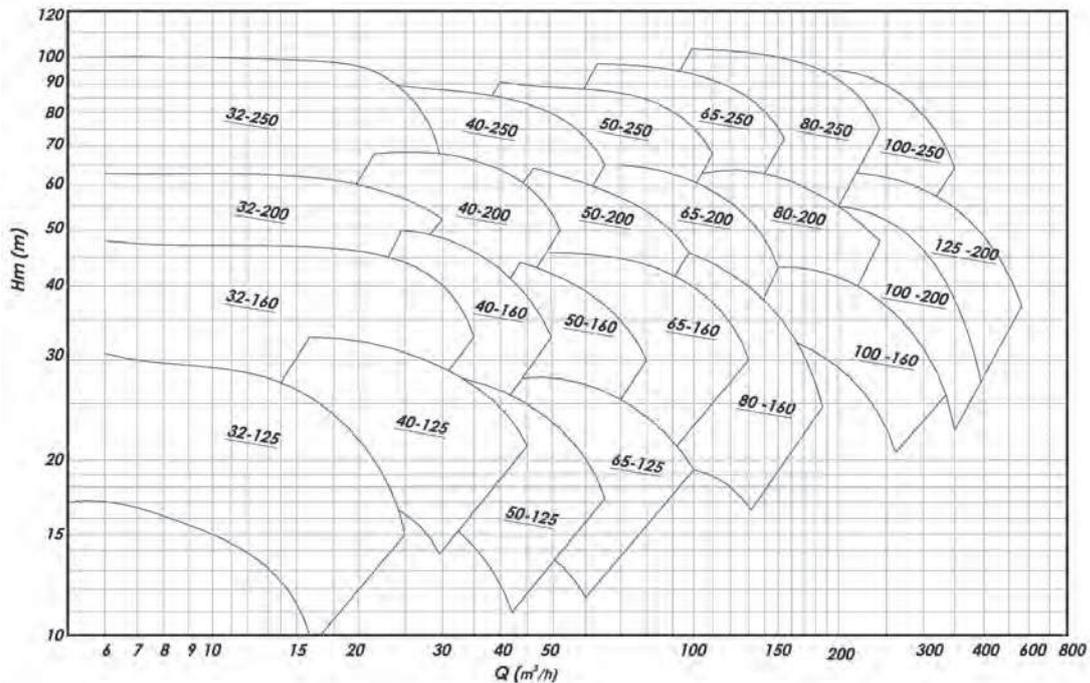
SN-M SERIES 1450 RPM Performance Table / SN-M Serisi 1450 D/D Performans Tablosu



- Sempomp SN-M Series pump are testing with TSE EN ISO 9906 grades 2.
- This standart doesnt include mechanical properties, just include hydrolic properties.
- This standart has tolerance \pm % 8 flow rate, \pm %5 pressure and -%5 efficiency.
- Sempa can supply their special customers to test raports for all pump if required.

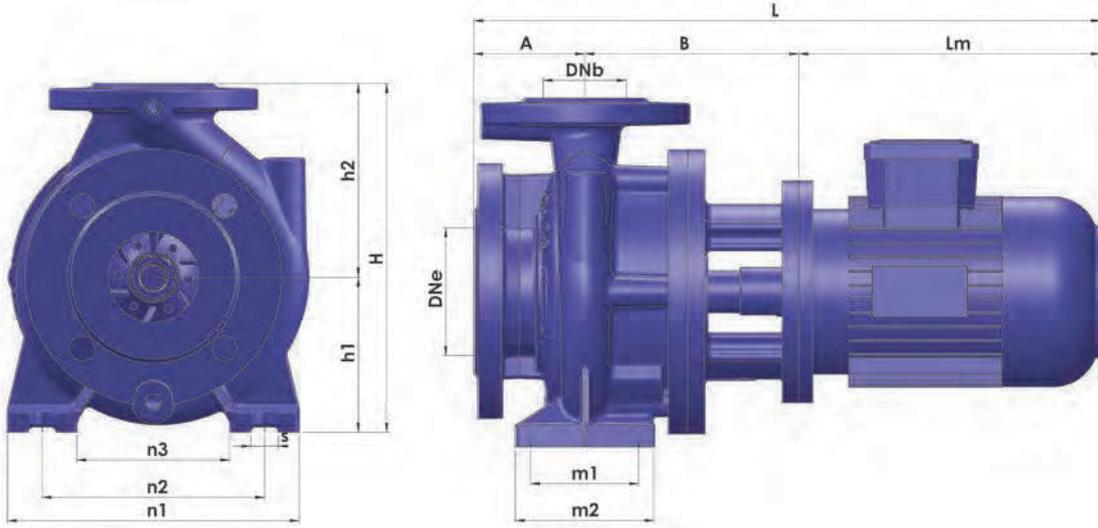
- Sempomp SN-M Serisi pompalar TSE EN ISO 9906 sınıf 2 standartlarına göre test edilmektedir.
- Bu standart sadece hidrolikler içerir mekanik özellikler içemez
- Bu standart \pm % 8 debi, \pm % 5 basınç ve -%5 verim toleransına sahiptir.
- İstenilen ürünlerin performans eğrilerini firmamızdan isteyebilirsiniz.

SN-M SERIES 2900 RPM Performance Table / SN-M Serisi 2900 D/D Performans Tablosu



Pumps Dimensions / Pompa Ölçüleri

(1450 rpm)



Pump Type Pompa Tipi	Motor		Dimensions / Ölçüler (mm)														Weight Ağırlık kg				
	kw	IEC	DNe	DNb	A	B	Lm	L	H	h1	h2	n1	n2	n3	s1	m1		m2			
32-125	0,37	71M	50	32	82	146	223	451	252	112	140	220	160	110	12	105	81	29			
32-160	0,37	71M			79	140	223	442	292	132	160	240	140	103		79	102	79	81	35	
	0,55	80M			79	175	244	498												42	
32-200	0,75	80M			79	175	244	498	340	160	180	244	135	102		79	102	79	81	43	
	0,37	71M			80	141	223	444												45	
	0,55	80M			80	176	244	500												52	
32-250	0,75	80M			65	40	80	176	244	500	405	180	225	320		260	188	14	126	100	53
	1,1	90S					102	183	267	552											63
	1,5	90L					102	183	267	552											65
	2,2	100L					102	183	292	577											75
40-125	3	100L			65	40	102	183	292	577	405	180	225	320		260	188	14	126	100	78
	0,37	71M					80	154	223	457											252
40-160	0,55	80M	65	40	80	164	244	488	292	132	160	246	190	132	103	78	81	39			
	0,37	71M			90	137	223	450										37			
40-200	0,55	80M			90	172	244	506	340	160	180	270	214	158	102	77	81	81	44		
	0,75	80M			90	172	244	506											45		
40-250	0,55	80M			100	178	244	522	405	180	225	320	255	186	14	128	99	100	100	52	
	0,75	80M			100	178	244	522												53	
	1,1	90S			100	178	267	545												55	
40-315	1,1	90S			114	178	267	559	450	200	250	348	280	188	16	127	100	100	100	67	
	1,5	90L			114	178	267	559												69	
	2,2	100L			114	178	292	584												79	
	3	100L			114	178	292	584												82	
40-315	2,2	100L			100	185	292	577	450	200	250	348	280	188	16	127	100	100	100	92	
	3	100L	100	185	292	577	95														
	4	112M	100	185	336	621	102														
	5,5	132S	100	198	396	694	110														

Pumps Dimensions / Pompa Ölçüleri

(1450 rpm)

Pump Type Pompa Tipi	Motor		Dimensions / Ölçüler (mm)														Weight Ağırlık kg		
	kw	IEC	DNe	DNb	A	B	Lm	L	H	h1	h2	n1	n2	n3	s1	m1		m2	
50-125	0,37	71M	65	50	100	154	223	477	292	132	160	240	190	140	12	100	77	37	
	0,55	80M			100	164	244	508										43	
	0,75	80M			100	164	244	508										44	
50-160	0,37	71M			110	132	223	465	340	160	180	268	214	160			100	75	39
	0,55	80M			110	167	244	521											46
	0,75	80M			110	167	244	521											47
50-200	1,1	90S			110	167	267	544	360	160	200	269	216	147		108		80	49
	1,1	90S			110	172	267	549											58
	1,5	90L			110	172	267	549											60
50-250	2,2	100L			110	172	292	574	405	180	225	316	248	176			124	97	70
	3	100L			101	186	292	579											83
	4	112M			101	186	336	623											86
50-315	5,5	132S	101	199	396	696	505	225	280	348	280	184	16	126	99	93			
	4	112M	125	193	336	654										101			
	5,5	132S	125	206	396	727										118			
	7,5	132M	125	206	396	727										139			
65-125	0,55	80M	80	50	125	246	476	847	340	160	180	280	215	150	14	125	102	166	
	0,75	80M			100	164	244	508										46	
65-160	1,1	90S			108	167	267	542	360	160	200	282	214	144	12	127	100	47	
	1,5	90L			108	167	267	542										54	
65-200	2,2	100L			108	167	292	567	405	180	225	323	255	186		136	109	66	
	1,5	90L			104	174	267	545										65	
	2,2	100L			104	174	292	570										75	
65-250	3	100L			104	174	292	570	450	200	250	365	278	195			18	125	78
	4	112M			104	174	336	614							85				
	3	100L			100	194	292	586							97				
	4	112M			100	194	336	630							104				
65-315	5,5	132S			100	207	396	703	505	225	280	405	315	231	160	125		112	
	5,5	132S	100	207	396	703	112												
	7,5	132M	100	207	396	703	133												
	7,5	132M	128	204	396	728	122												
65-400	11	160M	128	204	336	668	615	260	355	435	355	375	16	130		143			
	11	160M	128	244	476	848										171			
	15	160L	128	244	476	848									185				
	11	160M	125	244	476	845								199					
65-400	15	160L	125	244	476	845	615	260	355	435	355	375		130	213				
	18,5	180M	125	244	519	888									243				
	22	180L	125	244	519	888							251						
	30	200L	125	244	555	924							307						

Pumps Dimensions / Pompa Ölçüleri
(1450 rpm)

Pump Type Pompa Tipi	Motor		Dimensions / Ölçüler (mm)														Weight Ağırlık kg						
	kw	IEC	DNe	DNb	A	B	Lm	L	H	h1	h2	n1	n2	n3	s1	m1		m2					
80-160	1,1	90S	100	80	126	174	267	567	405	180	225	331	263	194	12	126	99	59					
	1,5	90L			126	174	267	567										61					
	2,2	100L			126	174	292	592										71					
	3	100L			126	174	292	592										74					
80-200	3	100L			130	194	292	616	430	180	250	345	280	201	16		160	125	93				
	4	112M			130	194	336	660											100				
	5,5	132S			130	207	396	733											108				
80-250	4	112M			125	100	127	197	336	660	480	200	280	405	317				235	18	160	125	109
	5,5	132S					127	210	396	733						117							
	7,5	132M					127	210	396	733						138							
	11	160M					127	250	476	853						165							
80-315	7,5	132M					126	206	396	728	565	250	315	404	315	233			160				125
	11	160M					126	246	476	848							184						
	15	160L					126	246	476	848							198						
	18,5	180M					126	246	519	891							228						
80-400	18,5	180M					125	257	519	901	635	280	355	440	355	270	14	160		125	256		
	22	180L	125	257			519	901	264														
	30	200L	125	257			555	937	320														
	37	225S	125	287			625	1037	382														
100-160	3	100L	125	100			120	199	292	611	480	200	280	363	278	193			18		160	125	98
	4	112M					120	199	336	655													105
	5,5	132S					120	212	396	728													113
100-200	3	100L					127	196	292	615	505	225	280	395	315	235							18
	4	112M			127	196	336	659	99														
	5,5	132S			127	124	396	647	107														
	7,5	132M			127	124	396	647	128														
100-250	5,5	132S			142	207	396	745	565	250	315	401	315	229	18	160	124	121					
	7,5	132M			142	207	396	745										142					
	11	160M			142	247	476	865										169					
	15	160L			142	247	476	865										183					
100-315	11	160M			140	247	476	863	635	280	355	505	399	293				20	200	155	191		
	15	160L			140	247	476	863													205		
	18,5	180M			140	247	519	906													234		
	22	180L			140	247	519	906													242		
	30	200L			140	247	555	942							299								
100-400	22	180L	147	254	519	920	635	280	355	505	399	293	20	200	155	307							
	30	200L	147	254	555	956										362							
	37	225S	147	284	625	1056										424							
	45	225M	147	284	625	1056										461							
	55	250M	147	284	745	1176										500							

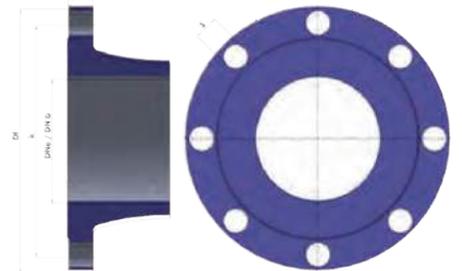
Pumps Dimensions / Pompa Ölçüleri

(1450 rpm)

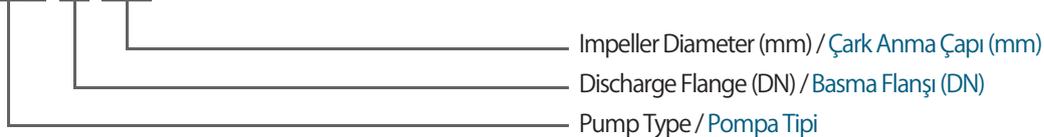
Pump Type Pompa Tipi	Motor		Dimensions / Ölçüler (mm)														Weight Ağırlık kg																
	kw	IEC	DNe	DNb	A	B	Lm	L	H	h1	h2	n1	n2	n3	s1	m1		m2															
125-200	7,5	132M	150	125	143	208	396	747	565	250	315	400	315	244	18	160	130	144															
	11	160M			143	248	476	867										171															
	15	160L			143	248	476	867										185															
125-250	11	160M			200	150	137	250	476	863	605			250	355		506	401	232	16	200	155	185										
	15	160L					137	250	476	863													199										
	18,5	180M					137	250	519	906													229										
	22	180L					137	250	519	906													237										
125-315	15	160L					200	150	140	257	476			873	635				280	355		506	401	295	20	200	155	241					
	18,5	180M							140	257	519			916														271					
	22	180L							140	257	519			916														279					
	30	200L							140	257	555			952														335					
	37	225S							140	287	625			1052														397					
125-400	37	225S	200	150					144	287	625	1056	715	315	400	502			396	294				20		200	155	420					
	45	225M							144	287	625	1056																457					
	55	250M							144	287	745	1176																497					
150-200	11	160M			200	150			162	246	476	884	635	280	355		513	403		293	20					204	158	216					
	15	160L							162	246	476	884																230					
	18,5	180M							162	246	519	927																260					
150-250	15	160L							200	150	160	247	476	883	660					280						380	515	403	291	20	205	159	242
	18,5	180M					160	247			519	926	271																				
	22	180L					160	247			519	926	279																				
	30	200L					160	247			555	962	335																				
150-315	22	180L					200	150			160	257	519	936	680					280		400	560		450	340			24		200	155	289
	30	200L									160	257	555	972																			344
	37	225S	160	287							625	1072	406																				
	45	225M	160	287							625	1072	443																				
150-400	45	225M	200	150							160	287	625	1072	765	315			450	560		450		340		22					200	154	466
	55	250M			160	287					745	1192	505																				

Flange Diameter / Flanş Ölçüsü

Pump Type Pompa Tipi	Suction (PN 16) / Emme						Pressure (PN) / Basma					
	DNe	Df	k	s	n	bf	DNb	Df	k	s	n	bf
32	50	165	125	18	4	20	32	140	100	18	4	18
40	65	185	145	18	4	20	40	150	110	18	4	18
50	65	185	145	18	4	20	50	165	125	18	4	20
65	80	200	160	18	8	22	65	185	145	18	4	20
80	100	220	180	18	8	24	80	200	160	18	8	22
100	125	250	210	18	8	26	100	220	180	18	8	24
125	150	285	240	23	8	26	125	250	210	18	8	26
150	200	240	295	23	12	30	150	285	240	23	8	26

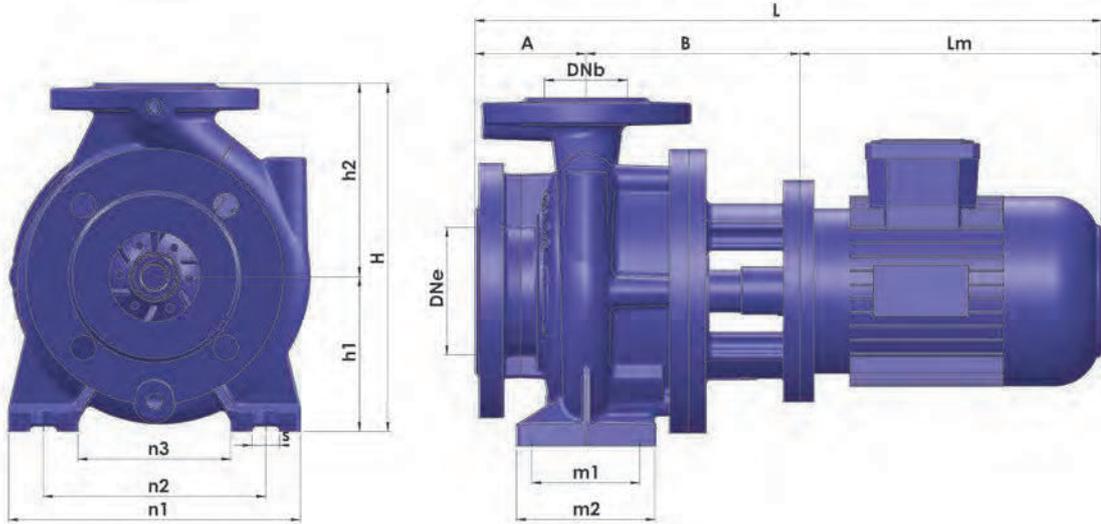


n = Hole Number / Delik Sayısı

SMN 65-250

Pumps Dimensions / Pompa Ölçüleri

(2900 rpm)



Pump Type Pompa Tipi	Motor		Dimensions / Ölçüler (mm)														Weight Ağırlık kg		
	kw	IEC	DNe	DNb	A	B	Lm	L	H	h1	h2	n1	n2	n3	s1	m1		m2	
32-125	0,75	80M	50	32	82	156	244	482	252	112	140	220	160	110		105	81	35	
	1,1	80M			82	156	244	482										36	
	1,5	90S			82	156	247	485										39	
	2,2	90L			82	156	267	505										41	
32-160	1,5	90S			79	175	247	501	292	132	160	240		140	12	103		79	47
	2,2	90L			79	175	267	521											49
	3	100L			79	175	292	546											58
	4	112M			79	175	336	590											66
32-200	2,2	90L			80	176	267	523	340	160	180	244		135		102		79	58
	3	100L			80	176	292	548											67
	4	112M			80	176	336	592											75
	5,5	132S			80	189	396	665											80
32-250	7,5	132S			102	197	396	695	405	180	225	320	260	188	14	126	100		95
	11	160M			102	237	476	815											134
	15	160M			102	237	476	815											141
40-125	1,5	90S			65	40	80	164	247	491	252	112	140	208	160	110	13	100	79
	2,2	90L	80	164			267	511	46										
	3	100L	80	186			292	558	56										
40-160	2,2	90L	90	172			267	529	292	132	160	246	190	132		103	78		50
	3	100L	90	172			292	554											59
	4	112M	90	172			336	598											67
	5,5	132S	90	185			396	671											72
40-200	4	112M	100	178			336	614	340	160	180	270	214	158	12	102	77		76
	5,5	132S	100	191			396	687											81
	7,5	132S	100	191			396	687											88
	11	160M	100	231			476	807											127
40-250	11	160M	114	231			476	821	405	180	225	320	255	186	14	128	99		138
	15	160M	114	231			476	821											145
	18,5	160L	114	231			476	821											160
	22	180M	114	231			519	864											183
	30	200L	114	231			555	900											224
50-125	3	100L	100	186			292	578	292	132	160	240	190	140	12	100	77		59
	4	112M	100	186			336	622											67
	5,5	132S	100	198			396	694											72

Pumps Dimensions / Pompa Ölçüleri

(2900 rpm)

Pump Type Pompa Tipi	Motor		Dimensions / Ölçüler (mm)														Weight Ağırlık kg									
	kw	IEC	DNe	DNb	A	B	Lm	L	H	h1	h2	n1	n2	n3	s1	m1		m2								
50-160	3	100L	65	50	110	167	292	569	340	160	180	268	214	160	12	100	75	61								
	4	112M			110	167	336	613										69								
	5,5	132S			110	181	396	687										74								
	7,5	132S			110	181	396	687										81								
	11	160M			110	221	476	807										120								
50-200	7,5	132S			110	186	396	692	360	160	200	269	216	147		108	80	90								
	11	160M			110	226	476	812										130								
	15	160M			110	226	476	812										137								
50-250	18,5	160L			101	239	476	816	405	180	225	316	248	176		124	97	164								
	22	180M			101	239	519	859										188								
	30	200L			101	239	555	895										228								
	37	200L			101	239	555	895										247								
65-125	4	112M			80	65	100	186	336	622	360	160	200	282		214	144	14	125	102	71					
	5,5	132S					100	198	396	694											76					
	7,5	132S					100	198	396	694											83					
	11	160M	100	238			476	814	122																	
65-160	7,5	132S	108	181			396	685	360	160	200	282	214	144	127	100	86									
	11	160M	108	221			476	805									125									
	15	160M	108	221			476	805									132									
65-200	15	160M	104	227			476	807	405	180	225	323	255	186	136	109	141									
	18,5	160L	104	227			476	807									156									
	22	180M	104	227			519	850									180									
	30	200L	104	227			555	886									221									
65-250	22	180M	100	247			519	866	450	200	250	365	278	195	18	160	125	201								
	30	200L	100	247			555	902										242								
	37	200L	100	247			555	902										261								
	45	225M	100	247			625	972										310								
	55	250M	100	277			745	1122										359								
80-160	7,5	132S	100	80			126	187	396	709	405	180	225	331	263	194	12	99	91							
	11	160M					126	227	476	829									130							
	15	160M					126	227	476	829									137							
	18,5	160L					126	227	476	829									152							
	22	180M			126	227	519	872	176																	
80-200	18,5	160L			130	247	476	853	430	180	250	345	280	201	16	102	172									
	22	180M			130	247	519	896									195									
	30	200L			130	247	555	932									236									
	37	200L			130	247	555	932									255									
	45	225M			130	247	625	1002									306									
80-250	37	200L			127	250	555	932	480	200	280	405	317	235	18	160	125	264								
	45	225M			127	250	625	1002										315								
	55	250M			127	280	745	1152										364								
100-160	30	200L			125	100	120	252	555	927	480	200	280	363	278	193	20	163	130	240						
	37	200L					120	252	555	927										259						
	45	225M					120	252	625	997										311						
100-200	30	200L					127	249	555	931				480	200	280				360	285	206	20	163	130	234
	37	200L					127	249	555	931																253
	45	225M					127	249	625	1001																305
	55	250M					127	279	745	1151	354															
100-250	45	225M	142	247			625	1014	505	225	280	395	315	235	18	160	126	320								
	55	250M	142	277			745	1164										348								

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