



CE



SMN SERIES PUMP

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

SMN 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
	*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
IMPELLER ÇARK			

	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

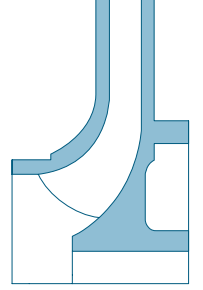
3. Impeller / Çark

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 ila 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.

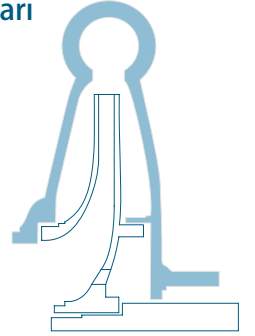


3.2-Balancing Hole and Wearing Rings

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 ila %10 arasında basınç farklarının oluşacağını göstermiştir.



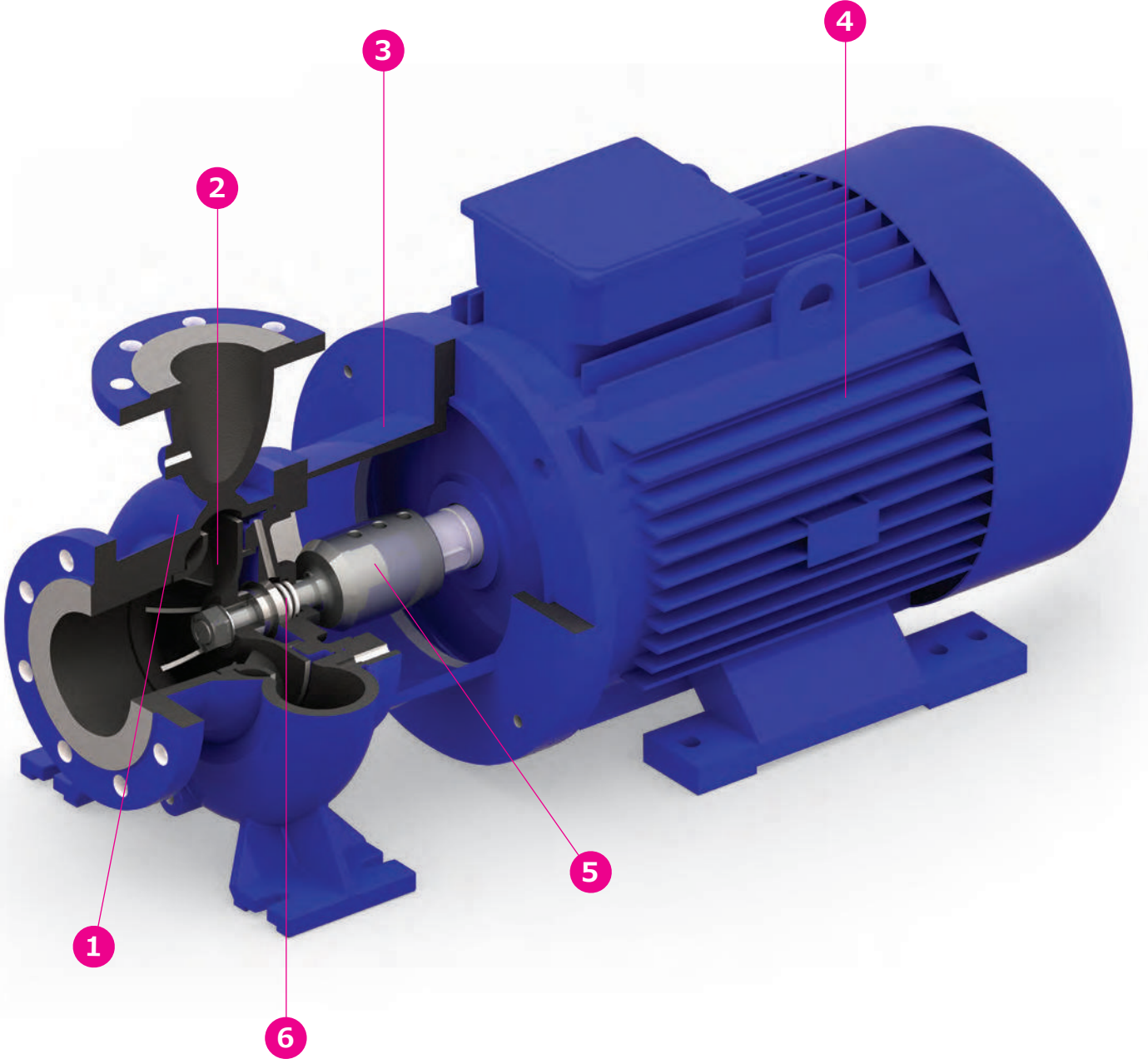
All impellers are dynamically balanced according to ISO 1940 Class 6.3.

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

4. Seal / Salmastra

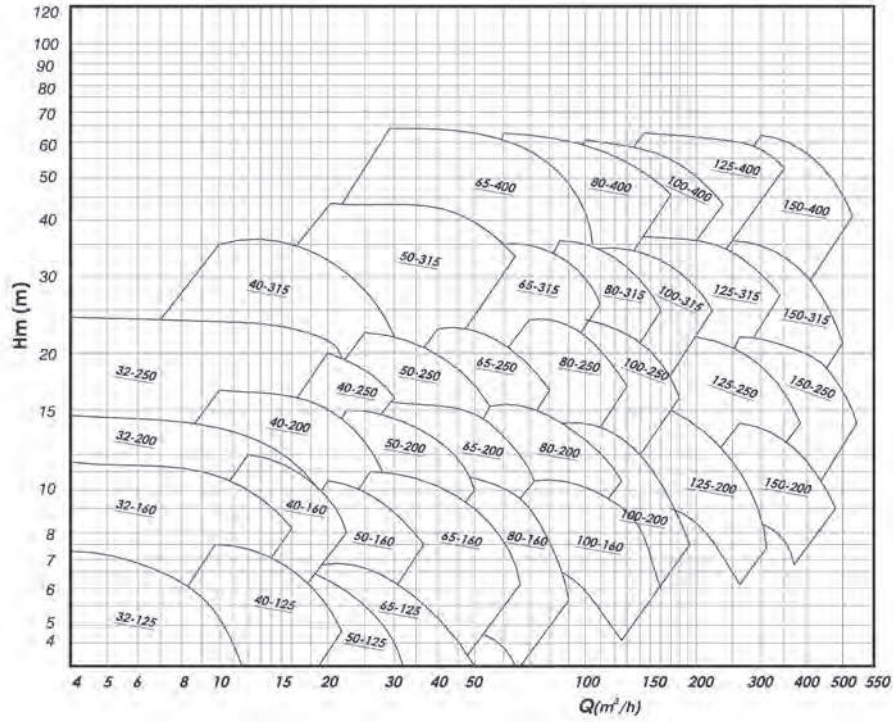
Parts Parçalar	Seal Face Döner Yüzey	Seat Sabit Yüzey	Elastomer Elastomer	Springs Yaylar	Metal Parts Metal Parçalar	
MG 1	Carbon Graphite Antimony Impregnated	Silicon Carbide	NBR	-	CrNiMo Steel (G)	Standart
	Silicon Carbide	Special Cast CrMo Steel	EPDM	-	Hastelloy C-4	Optional Opsiyonel
	Tungsten Carbide	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)	Optional 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	- Impeller	Çark
3	- Interim Part	Ara Parça
4	- Motor	Motor
5	- Shaft	Mil
6	- Mechanical Seal	Mekanik Salmastra

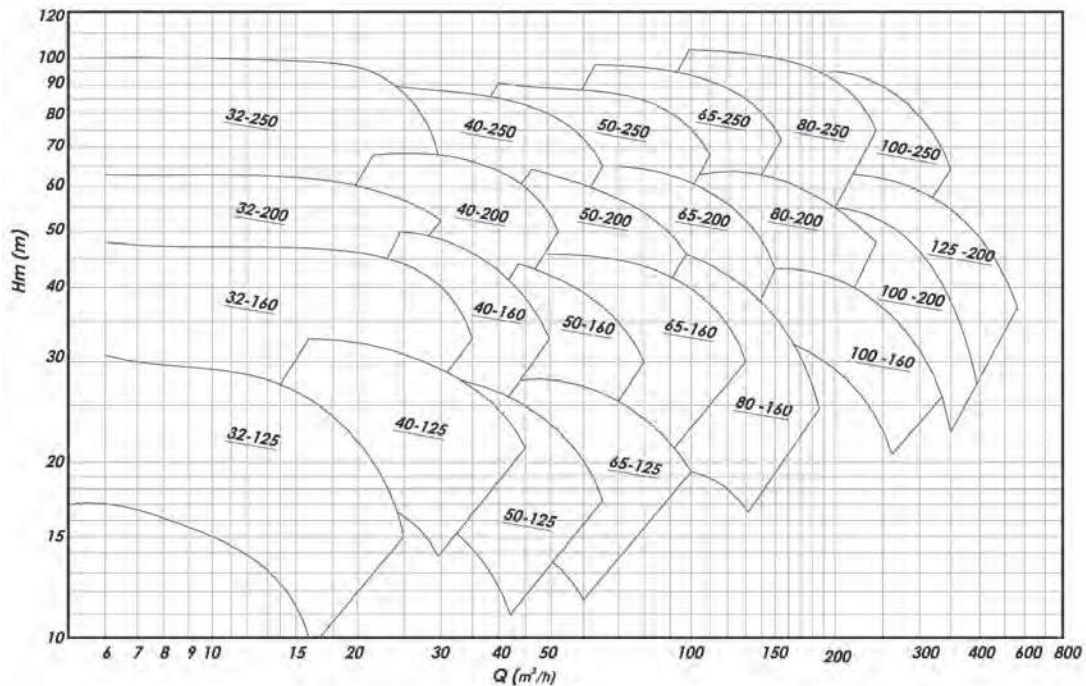
SMN SERIES 1450 RPM Performance Table / SMN Serisi 1450 D/D Performans Tablosu



- Sempomp SMN 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.

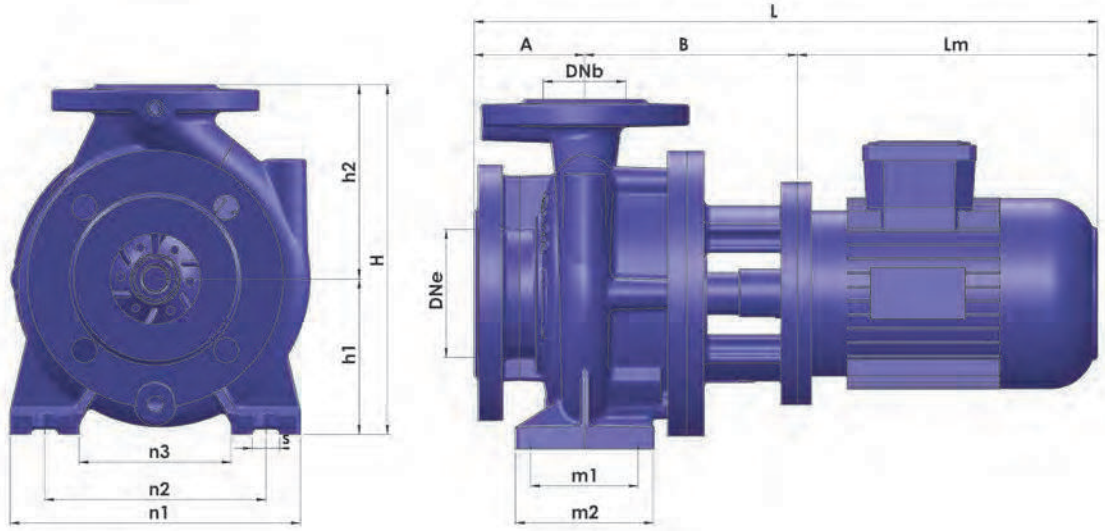
- Sempomp SMN Serisi pompalar TSE EN ISO 9906 sınıf 2 standartlarına göre test edilmektedir.
- Bu standart sadece hidrolikler içerir mekanik özellikler içermez
- Bu standart $\pm$ % 8 debi, $\pm$ % 5 basınç ve -%5 verim toleransına sahiptir.
- İstenilen ürünlerin performans eğrilerini firmamızdan isteyebilirsiniz.

SMN SERIES 2900 RPM Performance Table / SMN 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	190	140		103	79	35			
	0,55	80M			79	175	244	498											42		
	0,75	80M			79	175	244	498												43	
32-200	0,37	71M			80	141	223	444	340	160	180	244			135	102		52			
	0,55	80M			80	176	244	500					53								
	0,75	80M			80	176	244	500						63							
32-250	1,1	90S			102	183	267	552	405	180	225	320	260				188		14	126	100
	1,5	90L			102	183	267	552							65						
	2,2	100L			102	183	292	577								75					
	3	100L			102	183	292	577						78							
40-125	0,37	71M			65	40	80	154	223	457	252	112	140		208	160	110	13	100	79	33
	0,55	80M					80	164	244	488											39
40-160	0,37	71M					90	137	223	450	292	132	160		246	190	132	12	103	78	37
	0,55	80M					90	172	244	506				44							
	0,75	80M					90	172	244	506											45
40-200	0,55	80M	100	178			244	522	340	160	180	270	214	158	102	77	52				
	0,75	80M	100	178			244	522									53				
	1,1	90S	100	178			267	545										55			
40-250	1,1	90S	114	178			267	559	405	180	225	320	255	186			14		128	99	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		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			75	39		
	0,55	80M			110	167	244	521										46		
	0,75	80M			110	167	244	521										47		
	1,1	90S			110	167	267	544								49				
50-200	1,1	90S			110	172	267	549	360	160	200	269	216	147		108		80	58	
	1,5	90L			110	172	267	549											60	
	2,2	100L			110	172	292	574									70			
50-250	2,2	100L			101	186	292	579	405	180	225	316	248	176			124	97	83	
	3	100L			101	186	292	579											86	
	4	112M			101	186	336	623											93	
	5,5	132S			101	199	396	696								101				
50-315	4	112M	80	50	125	193	336	654	505	225	280	348	280	184	16	126		99	110	
	5,5	132S			125	206	396	727											118	
	7,5	132M			125	206	396	727									139			
	11	160M			125	246	476	847									166			
65-125	0,55	80M		80	65	100	164	244	508	340	160	180	280	215	150	14	125	102	46	
	0,75	80M				100	164	244	508										47	
65-160	1,1	90S			108	167	267	542	360	160	200	282	214	144	12	127	100	54		
	1,5	90L			108	167	267	542										56		
	2,2	100L			108	167	292	567										66		
65-200	1,5	90L			104	174	267	545	405	180	225	323	255	186		136	109	65		
	2,2	100L			104	174	292	570										75		
	3	100L			104	174	292	570										78		
	4	112M			104	174	336	614							85					
65-250	3	100L		65	65	100	194	292	586	450	200	250	365	278	195		18	160	125	97
	4	112M				100	194	336	630											104
	5,5	132S				100	207	396	703							112				
	7,5	132M				100	207	396	703							133				
65-315	5,5	132S			128	204	396	728	505	225	280	405	315	231	160	125				122
	7,5	132M			128	204	336	668												143
	11	160M			128	244	476	848												171
	15	160L			128	244	476	848												185
65-400	11	160M	100		65	125	244	476	845	615	260	355	435	355		375	16	130		199
	15	160L				125	244	476	845											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		102	93
	4	112M			130	194	336	660										100
	5,5	132S			130	207	396	733										108
80-250	4	112M			127	197	336	660	480	200	280	405	317	235	18			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	18			156
	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			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			98
	4	112M			120	199	336	655										105
	5,5	132S			120	212	396	728										113
100-200	3	100L			127	196	292	615	480	200	280	360	285	206	20	163	130	92
	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	505	225	280	395	315	235	18	160	126	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	565	250	315	401	315	229	18	160	124	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)

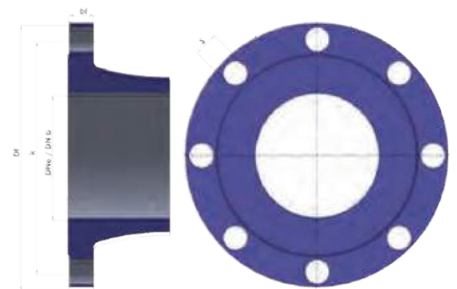
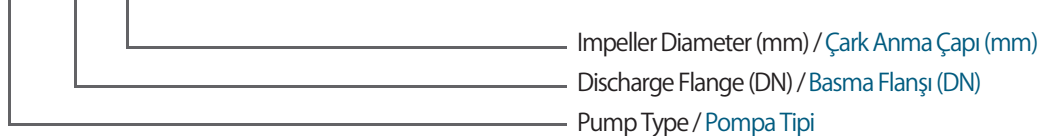
Pump Type Pompa Tipi	Motor		Dimensions / Ölçüler (mm)															Weight Ağırlık kg
	kw	IEC	DNe	DNb	A	B	Lm	L	H	h1	h2	n1	n2	n3	s1	m1	m2	
125-200	7,5	132M	150	125	143	208	396	747	565	250	315	400	315	244	18	160	130	144
	11	160M			143	248	476	867										171
	15	160L			143	248	476	867										185
125-250	11	160M			137	250	476	863	605	250	355			232	16		125	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			140	257	476	873	635	280	355	506	401	295	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			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	204	158	216	
	15	160L			162	246	476	884									230	
	18,5	180M			162	246	519	927									260	
150-250	15	160L			160	247	476	883	660	280	380	515		291	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			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			160	287	625	1072	765	315	450				22		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

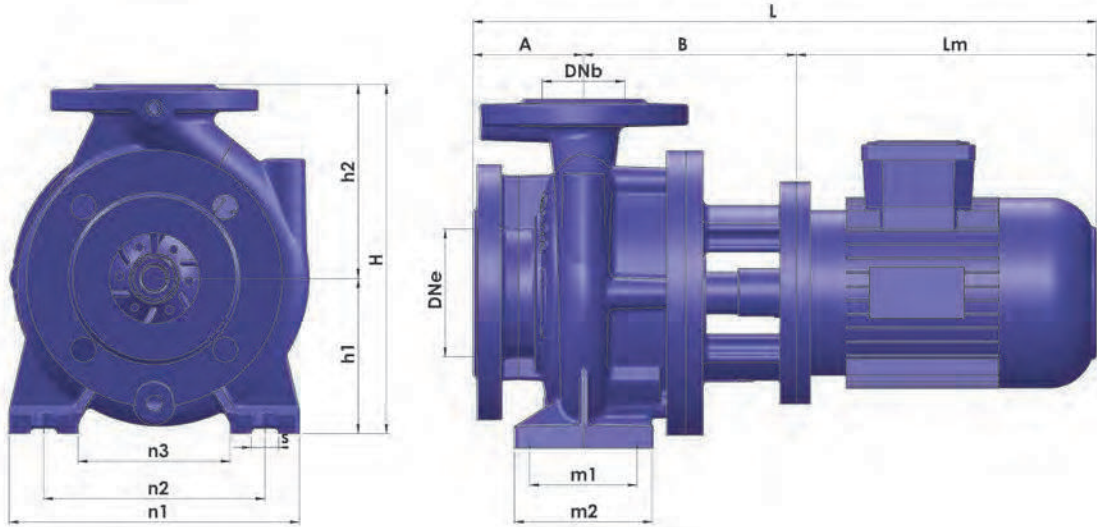
SMN 65-250





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	190	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	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	44
	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	12	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	50	50	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	12	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	126	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				240
	37	200L			120	252	555	927										259
	45	225M			120	252	625	997										311
100-200	30	200L			127	249	555	931				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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