



CE



SL Series In-Line Pumps

Designed For Heating, Air Conditioning Pressure Boosting
Quite and High Efficiency.
DIN 2533 - VDI 2035

SL Serisi Sirkülasyon Pompası

Isıtma, Soğutma, Basınçlandırma için Tasarlanmıştır.
Sessiz ve Yüksek Verimli
DIN 2533 - VDI 2035



Özkan

POMPA SANAYİ

www.ozkanpompa.com.tr

1. General Information / Genel Bilgiler

Discharge Flange	: DN 32 ... DN 200 mm
Capacity	: 500 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 200 mm
Debi	: 500 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

Clean or slightly dirty, low-viscosity fluids.

Basılabilen Sıvılar

Temiz veya çok hafif kirli, düşük viskoziteli sıvılar.

Usage Areas

- Building systems
- Industrial plants
- Swimming pools
- Geothermal plants
- Heating
- Cooling
- Pressurization
- Food - Beverage Industry

Kullanım Yerleri

- Bina sistemleri
- Endüstriyel tesislerde
- Yüzme Havuzlarında
- Jeotermal Tesislerde
- Isıtma
- Soğutma
- Basınçlandırma
- Gıda - İçecek Endüstrisi

2. Volute - Shaft / Salyangoz - Mil



	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

	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)



3. Impeller / Çark

3.1.1-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.

3.2-Balancing Hole and Wearing Rings

For SL series of Impellers, 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.

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

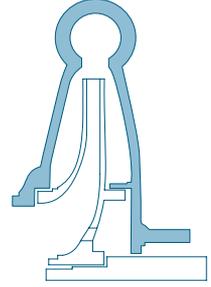
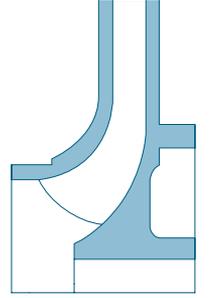
3.1.1-Kapalı Çarklar

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-Dengeleme delikleri ve Aşınma Halkaları

SL 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.

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



	MATERIAL NAME MALZEME ADI	EN-DIN	ASTM
IMPELLER ÇARK	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
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	*Chrome Steel *Kromlu Çelik	X20 Cr13	A 276 Type 420
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	*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



4. Mechanical Seal / Mekanik Salmastra

1-) MG1

Application: Water, Slightly Dirty Water
Kullanım Yeri: Su, Hafif Kirli Su

- Pressure / Basınç: 16 bar (230 PSI),
- Temperature / Sıcaklık: -20°C ... 80°C / *20°C ... 140°C
-4°F ... 176°F / *-4°F ... 284°F

A-) Seal Face / Dönel Yüzey:

Carbon graphite antimony impregnated,
*Silicon carbide
*Tungsten carbide

B-) Seat / Sabit Yüzey:

Silicon carbide *Aluminyum oxide
*Special cast CrMo steel *Tungsten

C-) Elastomer / Elastomer:

NBR *FKM
*EPDM *HNBR

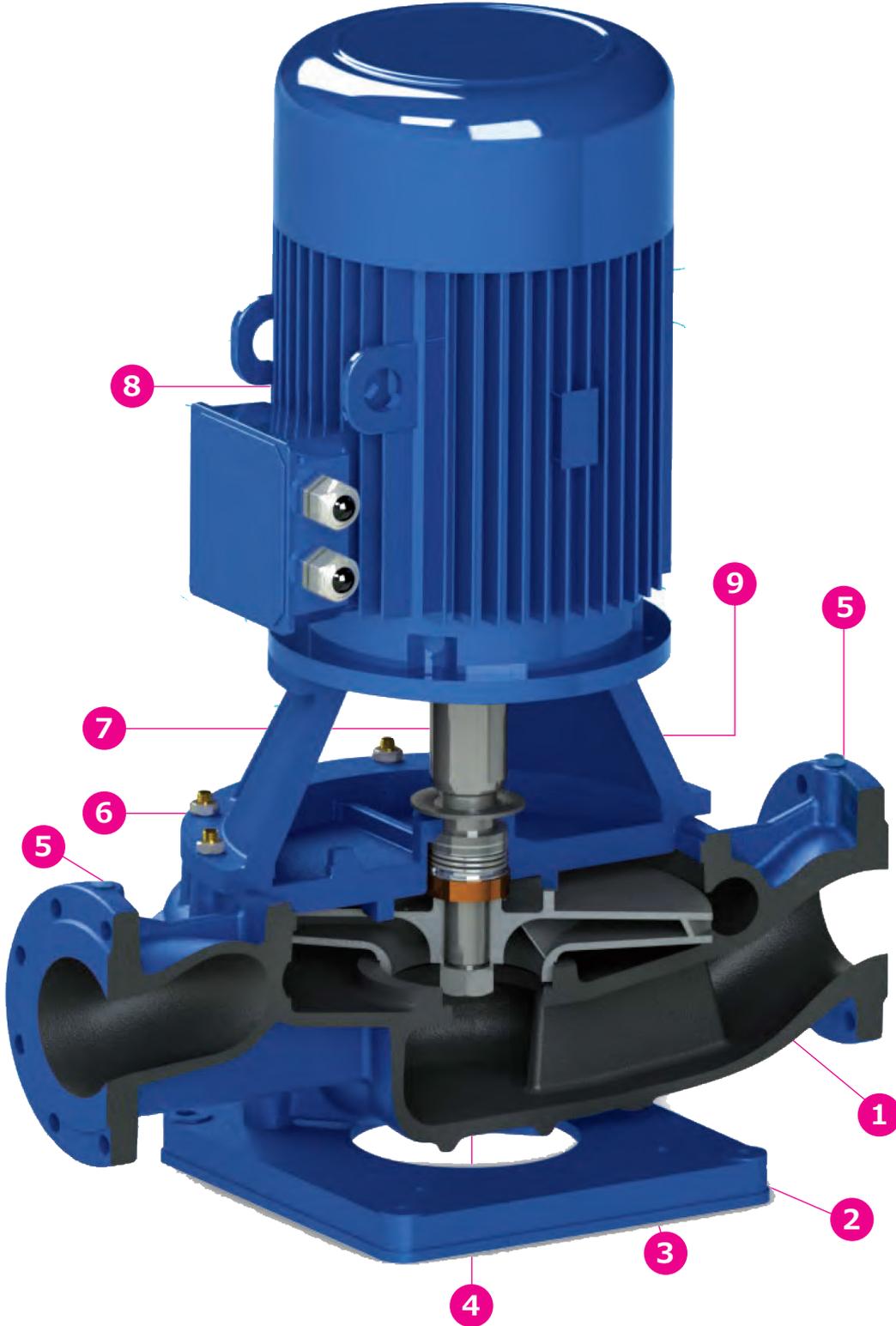
D-) Metal Parts / Metal Parça:

CrNiMo steel,
*Hastelloy® C-4

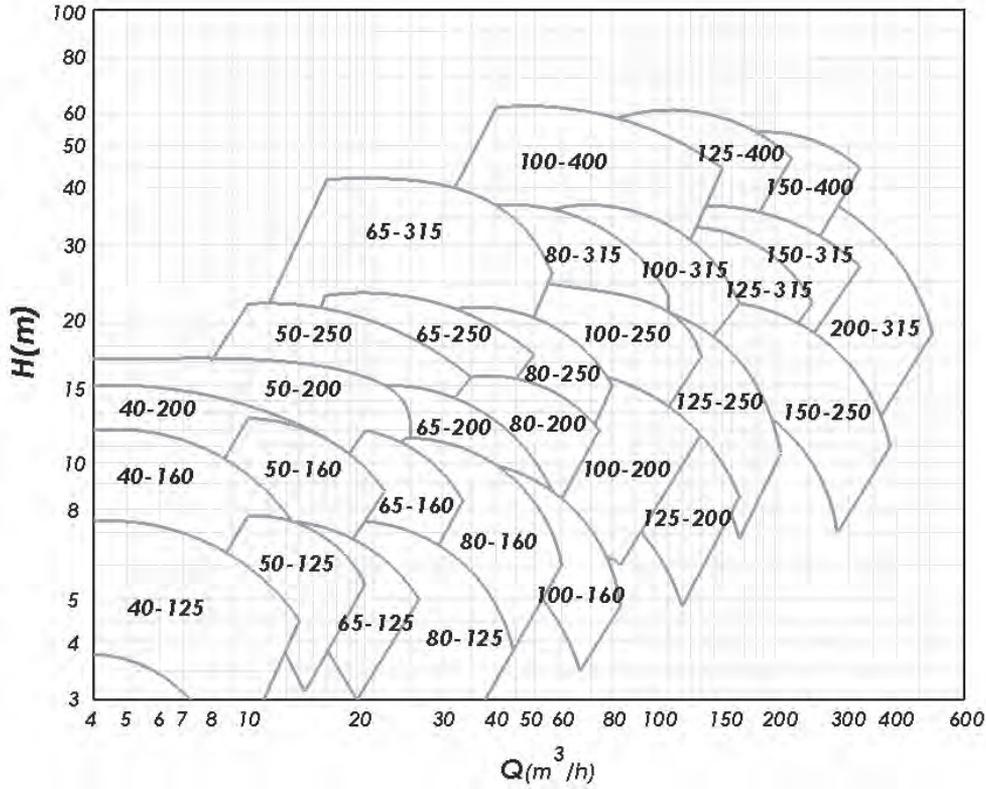


*= Optional / Opsiyonel

1 - Impeller	Çark	6 - Water Splash Guard	Su Sıçratma Muhafazası
2 - Support Stand	Alt Tabla	7 - Shaft	Mil
3 - Volute	Gövde	8 - Motor	Motor
4 - Mechanical Seal	Mekanik Salmatra	9 - Motor Connection Part	Ara Parça
5 - Pressure Tapping on Suction and Discharge Flange	Emme ve Basma Flanş Tıpası		



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

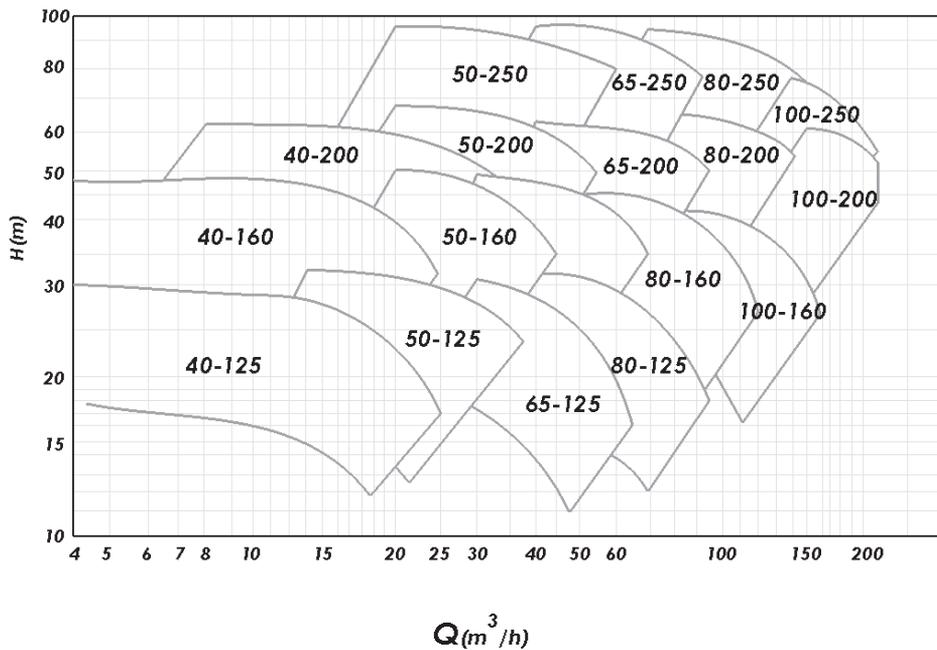


- Ozkan Pomp SL Series pump are testing with TSE EN ISO 9906 grades 2.
- This standart doesnt include mechanical properties, just include hydrolic properties.
- This standart has tolerance \pm % 8 flow rate, \pm %5 pressure and -%5 efficiency.
- Ozkan can supply their special customers to test raports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

 $Q(m^3/h)$

- Özkan Pompa SL 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.

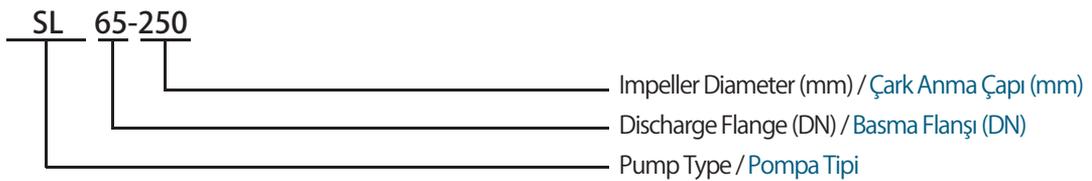
SL SERIES 2900 RPM Performance Table / SL Serisi 2900 D/D Performans Tablosu


 $Q(m^3/h)$

Pumps Technical Parts & Codes / Pompa Teknik Parçaları ve Kodları

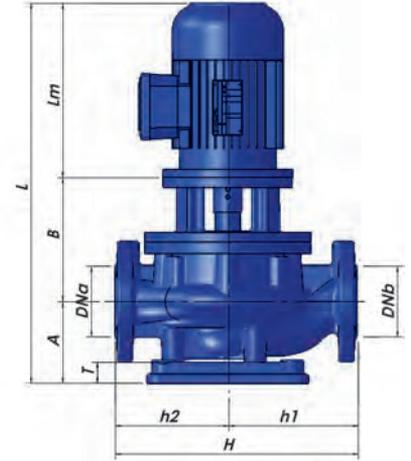
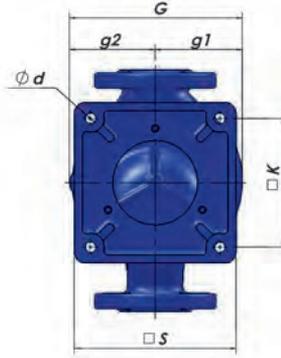
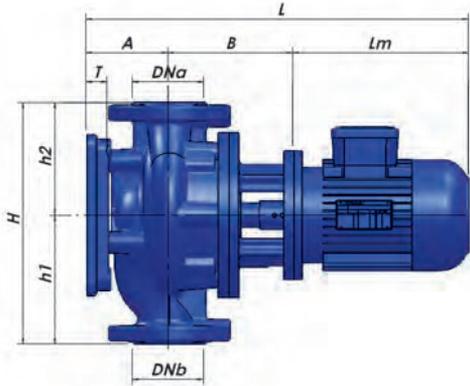
Pump Type Pompa Tipi	Mechanical Seal Mekanik Salmastra
40-125	MG1/30
40-160	MG1/30
40-200	MG1/30
50-125	MG1/30
50-160	MG1/30
50-200	MG1/30
50-250	MG1/30
65-125	MG1/30
65-160	MG1/30
65-200	MG1/30
65-250	MG1/30
65-315	MG1/40
80-125	MG1/30
80-160	MG1/30
80-200	MG1/30
80-250	MG1/40
80-315	MG1/40
100-160	MG1/30
100-200	MG1/40
100-250	MG1/40
100-315	MG1/40
100-400	MG1/50
125-200	MG1/40
125-250	MG1/40
125-315	MG1/40
125-400	MG1/50
150-250	MG1/40
150-315	MG1/50
150-400	MG1/50
200-315	MG1/50
200-400	MG1/50

Code of Pump / Pompa Kodu



Pumps Dimensions / Pompa Ölçüleri

(1450 rpm)



Pump Type Pompa Tipi	Engine / Motor		Dimensions / Ölçüler (mm)															Base Plate Alt Tabla	Weight Ağırlık kg
	kW	IEC	mm	A	B	Lm	L	T	H	h1	h2	G	g1	g2	□S	□K	Ød		
40-125	0,37	71M	40	102	154	223	479	26	300	160	140	208	108	100	200	160	14	T1	42
40-160	0,37	71M	40	103	150	223	476		340	180	160	236	122	114					48
	0,55	80M		103	185	244	532		52										
	0,75	80M		103	185	244	532		53										
40-200	0,55	80M	40	108	185	244	537	28	380	200	180	275	140	135	255	220	14	T2	58
	0,75	80M		108	185	244	537		59										
	1,1	90S		108	185	267	560		62										
50-125	0,37	71M	50	116	154	223	493	26	300	160	140	212	110	102	200	160	14	T1	43
	0,55	80M		116	164	244	524		44										
50-160	0,37	71M	50	115	150	223	488		340	180	160	238	124	114					47
	0,55	80M		115	185	244	544		51										
	0,75	80M		115	185	244	544	52											
	1,1	90S		115	185	267	567	55											
50-200	0,75	80M	50	118	185	244	547	28	425	225	200	280	145	135	255	220	14	T2	63
	1,1	90S		118	185	267	570		65										
	1,5	90L		118	185	267	570		65										
	2,2	100L		118	185	292	595		67										
50-250	1,5	90L	50	118	184	267	569	475	250	225	342	175	167	81					
	2,2	100L		118	184	292	594	90											
	3	100L		118	184	292	594	93											
65-125	0,37	71M	65	138	154	223	515	26	340	180	160	222	120	102	255	220	14	T1	52
	0,55	80M		138	164	244	546		56										
	0,75	80M		138	164	244	546		57										
65-160	0,75	80M	65	138	185	244	567		475	250	380	200	180	166					61
	1,1	90S		138	185	267	590	62											
	1,5	90L		138	185	267	590	64											
65-200	1,1	90S	65	140	186	267	593	28	475	250	225	315	162	150	255	220	14	14	77
	1,5	90L		140	186	267	593		82										
	2,2	100L		140	186	292	618		88										
	3	100L		140	186	292	618		88										
65-250	2,2	100L	65	138	185	292	615	26	475	250	225	343	177	166	255	220	14	14	96
	3	100L		138	185	292	615		99										
	4	112M		138	185	336	659		105										
	5,5	132S		138	198	396	732		115										

Pumps Dimensions / Pompa Ölçüleri
(1450 rpm)

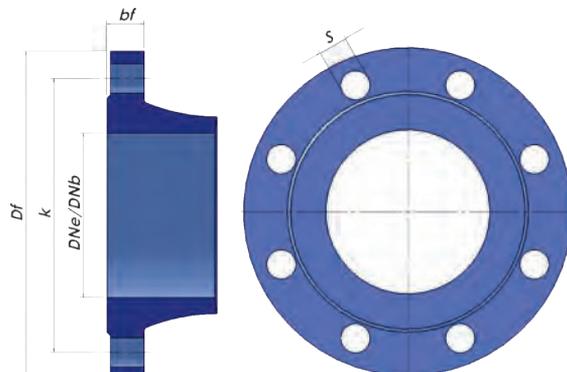
Pump Type Pompa Tipi	Engine / Motor		Dimensions / Ölçüler (mm)															Base Plate Alt Tabla	Weight Ağırlık kg
	kW	IEC	mm	A	B	Lm	L	T	H	h1	h2	G	g1	g2	□S	□K	Ød		
65-315	3	100L	65	170	193	292	655	40	560	280	280	418	216	202	395	350	18	T4	132
	4	112M		170	193	336	699												139
	5,5	132S		170	206	396	772												152
	7,5	132M		170	206	396	772												173
	11	160M		170	246	476	892												197
80-125	0,37	71M	80	158	154	223	535	28	380	200	180	252	138	114	255	220	14	T2	60
	0,55	80M		158	164	244	566												63
	0,75	80M		158	164	244	566												64
	1,1	90S		158	164	267	589												67
80-160	0,75	80M	80	158	185	244	587	28	425	225	200	280	152	128	255	220	14	T2	70
	1,1	90S		158	185	267	610												72
	1,5	90L		158	185	267	610												74
	2,2	100L		158	185	292	635												81
80-200	1,5	90L	80	158	185	267	610	28	475	250	225	315	170	145	255	220	14	T2	81
	2,2	100L		158	185	292	635												92
	3	100L		158	185	292	635												95
	4	112M		158	185	336	679												102
80-250	2,2	100L	80	178	192	292	662	36	560	280	280	379	197	182	315	270	17	T3	116
	3	100L		178	192	292	662												116
	4	112M		178	192	336	706												126
	5,5	132S		178	205	396	779												138
80-315	5,5	132S	80	190	209	396	795	40	595	315	280	425	220	205	395	350	18	T4	167
	7,5	132M		190	209	396	795												188
	11	160M		190	249	476	915												213
	15	160L		190	249	476	915												227
100-160	1,5	90L	100	158	184	267	609	28	475	250	225	292	162	130	255	220	14	12	84
	2,2	100L		158	184	292	634												91
	3	100L		158	184	292	634												94
100-200	3	100L	100	197	194	292	683	28	525	275	250	362	192	170	255	220	14	12	93
	4	112M		197	194	336	727												119
	5,5	132S		197	208	396	801												132
	7,5	132M		197	208	396	801												132
100-250	4	112M	205	195	208	396	736	36	580	300	280	384	206	178	315	270	17	T3	139
	5,5	132S		205	208	396	736												151
	7,5	132M		205	208	396	736												172
	11	160M		205	248	476	848												197
100-315	7,5	132M	100	199	209	396	804	40	670	355	315	455	240	215	395	350	18	T4	211
	11	160M		199	249	476	924												236
	15	160L		199	249	476	924												250
	18,5	180M		199	249	519	967												280
100-400	15	160L	100	190	257	476	923	40	800	400	400	558	288	270	395	350	18	T4	343
	18,5	180M		190	257	519	966												372
	22	180L		190	257	519	966												380
	30	200L		190	257	555	1002												431
	37	225S		190	287	625	1102												500
125-200	3	100L	125	220	219	292	731	40	560	280	280	390	208	182	395	350	18	T4	148
	4	112M		220	219	336	775												155
	5,5	132S		220	232	396	848												167
	7,5	132M		220	232	396	848												188

Pumps Dimensions / Pompa Ölçüleri

(1450 rpm)

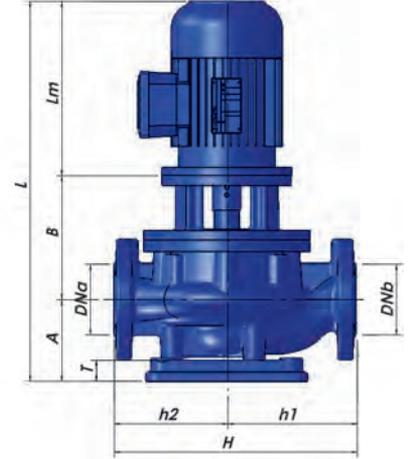
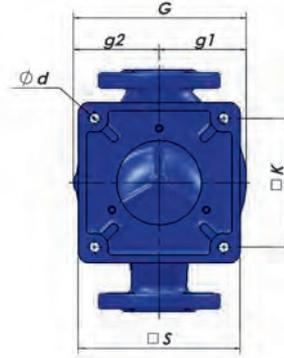
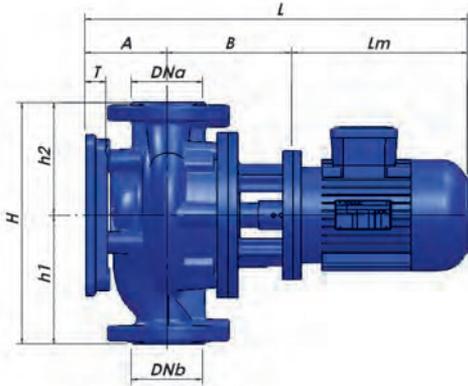
Pump Type Pompa Tipi	Engine / Motor		Dimensions / Ölçüler (mm)															Base Plate Alt Tabla	Weight Ağırlık kg
	kW	IEC	mm	A	B	Lm	L	T	H	h1	h2	G	g1	g2	□S	□K	Ød		
125-250	5,5	132S	125	220	232	396	848	40	630	315	315	413	218	195	395	350	18	T4	175
	7,5	132M		220	232	396	848												196
	11	160M		220	272	476	968												221
	15	160L		220	272	476	968												235
125-315	11	160M	125	197	275	476	948	40	710	355	355	488	258	230	395	350	18	T4	259
	15	160L		197	275	476	948												273
	18,5	180M		197	275	519	991												303
	22	180L		197	275	519	991												311
125-400	30	200L	125	197	275	555	1027	40	800	400	400	562	292	270	395	350	18	T4	330
	22	180L		197	285	519	1001												392
	37	225S		197	315	625	1137												443
	45	225M		197	315	625	1137												512
150-250	11	160M	150	226	296	476	998	42	710	355	355	474	254	220	440	380	23	T5	549
	15	160L		226	296	476	998												274
	18,5	180M		226	296	519	1041												288
	22	180L		226	296	519	1041												317
150-315	15	160L	150	222	317	476	1015	42	710	355	355	548	290	258	440	380	23	T5	325
	18,5	180M		222	317	519	1058												365
	22	180L		222	317	519	1058												394
	30	200L		222	317	555	1094												402
150-400	37	225S	150	222	347	625	1194	42	800	400	400	604	314	290	440	380	23	T5	453
	45	225M		222	347	625	1194												523
	55	250M		222	347	745	1314												574
	75	280M		222	347	885	1454												611
200-315	18,5	180M	200	242	358	519	1119	42	800	450	350	547	295	252	440	380	23	T5	631
	22	180L		242	358	519	1119												695
	30	200L		242	358	555	1155												774
	37	225S		242	387	625	1254												844
200-400	45	225M	200	242	387	625	1254	42	900	500	400	618	328	290	440	380	23	T5	444
	55	250M		242	387	745	1374												452
	75	280M		242	387	885	1514												503
	90	280M		242	387	885	1514												573

Pump Type Pompa Tipi	DNe & DNb (PN 16)				
	Df	k	s	n	bf
40	150	110	18	4	18
50	165	125	18	4	20
65	185	145	18	4	20
80	200	160	18	8	22
100	220	180	18	8	24
125	250	210	18	8	26
150	285	240	23	8	26
200	340	295	23	12	30



Pumps Dimensions / Pompa Ölçüleri

(2900 rpm)



Pump Type Pompa Tipi	Engine / Motor		Dimensions / Ölçüler (mm)														Base Plate Alt Tabla	Weight Ağırlık kg	
	KW	IEC	mm	A	B	Lm	L	T	H	h1	h2	G	g1	g2	□S	□K			Ød
40-125	1,1	80M	40	102	164	244	510	26	300	160	140	208	108	100	200	160	14	T1	45
	1,5	90S		102	164	267	533												49
	2,2	90L		102	164	267	533												51
	3	100L		102	186	292	580												59
40-160	3	100L	40	103	185	292	580	26	340	180	160	236	122	114	200	160	14	T1	65
	4	112M		103	185	336	624												73
	5,5	132S		103	198	396	697												84
40-200	4	112M	40	108	185	336	629	28	380	200	180	275	140	135	255	220	14	T2	80
	5,5	132S		108	198	396	702												89
	7,5	132S		108	198	396	702												96
	11	160M		108	238	476	822												135
50-125	1,5	90S	50	116	164	267	547	26	300	160	140	212	110	102	200	160	14	T1	52
	2,2	90L		116	164	267	547												54
	3	100L		116	186	292	594												61
	4	112M		116	186	336	638												69
	5,5	132S		116	198	396	710												69
50-160	3	100L	50	115	185	292	592	26	340	180	160	238	124	114	200	160	14	T1	64
	4	112M		115	185	336	636												72
	5,5	132S		115	198	396	709												82
	7,5	132S		115	198	396	709												89
	11	160M		115	238	476	829												89
50-200	7,5	132S	50	118	198	396	712	28	425	225	200	280	145	135	255	220	14	T2	100
	11	160M		118	238	476	832												139
	15	160M		118	238	476	832												146
50-250	11	160M	50	118	237	476	831	28	475	250	225	342	175	167	255	220	14	T2	152
	15	160M		118	237	476	831												160
	18,5	160L		118	237	476	831												174
	22	180M		118	237	519	874												198
65-125	3	100L	65	138	186	292	616	26	340	180	160	222	120	102	255	220	14	T2	193
	4	112M		138	186	336	660												71
	5,5	132S		138	198	396	732												78
	7,5	132S		138	198	396	732												87

Pumps Dimensions / Pompa Ölçüleri

(2900 rpm)

Pump Type Pompa Tipi	Engine / Motor		Dimensions / Ölçüler (mm)														Base Plate Alt Tabla	Weight Ağırlık kg		
	KW	IEC	mm	A	B	Lm	L	T	H	h1	h2	G	g1	g2	□S	□K			Ød	
65-160	5,5	132S	65	138	198	396	732		380	200	180	252	136	116						91
	7,5	132S		138	198	396	732													98
65-200	11	160M	65	140	239	476	855		475	250	225	315	162	153						147
	15	160M		140	239	476	855													153
	18,5	160L		140	239	476	855													168
	22	180M		140	239	519	898													182
65-250	15	160M	65	138	238	476	852		475	250	225	343	177	166						180
	18,5	160L		138	238	476	852													180
	22	180M		138	238	519	895													204
	30	200L		138	238	555	931													246
	37	200L		138	238	555	931													265
80-125	4	112M	80	158	186	336	680	28	380	200	180	252	138	114	255	220	14		T2	85
	5,5	132S		158	198	396	752													94
	7,5	132S		158	198	396	752													101
	11	160M		158	238	476	872													101
80-160	11	160M	80	158	238	476	872		425	225	200	280	152	128						144
	15	160M		158	238	476	872													151
	18,5	160L		158	238	476	872													166
80-200	15	160M	80	158	238	476	872		475	250	225	315	170	145						158
	18,5	160L		158	238	476	872													173
	22	180M		158	238	519	915													197
	30	200L		158	238	555	951													242
80-250	22	180M	80	178	245	519	942	36	560	280	280	379	197	182	315	270	17		T3	200
	30	200L		178	245	555	978													205
	37	200L		178	245	555	978													229
	45	225M		178	245	625	1048													287
	55	250M		178	275	644	1097													287
100-160	11	160M	100	158	237	476	871	28	475	250	225	292	162	130	255	220	14		T2	154
	15	160M		158	237	476	871													161
	18,5	160L		158	237	476	871													176
	22	180M		158	237	519	914													176
100-200	22	180M	100	197	247	519	963	28	525	275	250	362	192	170	255	220	14		T2	246
	30	200L		197	247	555	999													300
	37	200L		197	247	555	999													319
	45	225M		197	247	625	1069													358
100-250	37	200L	100	205	248	555	1008	36	580	300	280	384	206	178	315	270	17		T3	300
	45	225M		205	248	625	1078													363
	55	250M		205	278	644	1127													402
100-200	22	180M	100	197	247	519	963	28	525	275	250	362	192	170	255	220	14		T2	246
	30	200L		197	247	555	999													300
	37	200L		197	247	555	999													319
	45	225M		197	247	625	1069													358
100-250	37	200L	100	205	248	555	1008	36	580	300	280	384	206	178	315	270	17		T3	300
	45	225M		205	248	625	1078													363
	55	250M		205	278	644	1127													402

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