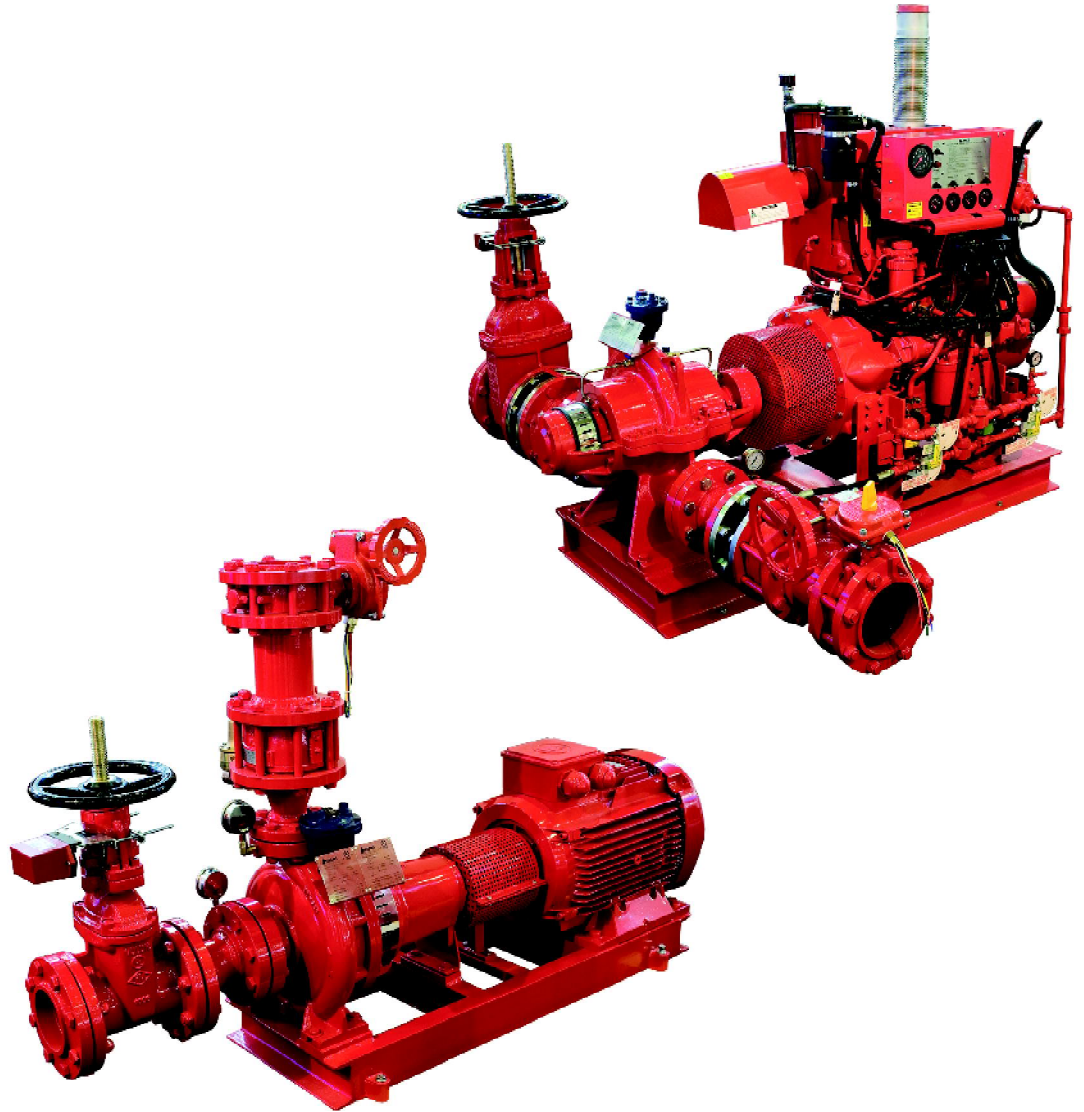


UL 448
FM Class 1311/1319

Standart

SDS / SNK

FIRE PUMPS
YANGIN POMPALARI



SDS/SNK 01 09-11 EN

General Information Genel Bilgiler



Who UL is and What UL does:

- UL (Underwriters Laboratories Inc.) is a global independent safety science company offering expertise across five key strategic businesses: Product Safety, Environment, Life & Health, University and Verification Services. Since the year UL founded in 1894, nearly 70,000 manufacturers in 100 countries have produced 20.000 different types of totally 20 billion UL Marked products.
- UL engineers scientifically investigate and test thousands of types of products, materials, constructions and systems to evaluate the electrical, fire and injury risks; the burglary or fire resistance; or the ability to detect, control or limit fires.
- UL has developed 1,200 Standards for Safety, which serve as the bedrock of compliance in over 200 industries.
- There is an "Online Certifications Directory" in UL's website and all the products listed by UL can be found here.

UL Safety Standard: UL 448

- The requirements of this standard cover design and test features of centrifugal fire pumps intended for use in water-supply systems for fire-protection service.
- The pumps covered by these requirements are intended for installation and use in accordance with the Standard for the Installation of Stationary Pumps for Fire Protection, NFPA 20.

Who FM is and What FM does:

- FM (Factory Mutual) Global is one of the world's largest business property insurers who also serves engineering solutions to be protected against basically fire, natural disaster or other types of property risk.
- FM Approvals is a unit of FM Global who certifies industrial and commercial products and services for companies. When a product or service meets the standards of FM Approvals, it is issued the "FM APPROVED" mark to signify it will perform as expected.
- Currently there are 45.000 certified products and services and these are listed in "FM Approval Guide" which can be found in FM website.

FM Approvals Standard: 1311 / 1319

- FM Class 1311 states approval criteria for horizontal or vertical split case centrifugal fire pumps while FM Class 1319 states about horizontal end suction centrifugal fire pumps that supply water to fire protection systems.
- The requirements in these standards are mainly based on ANSI Hydraulics Institute (HI) and NFPA 20 standards.

UL Kimdir, Ne yapar:

- UL (Underwriters Laboratories Inc.) 5 ana stratejik dalda (Ürün Güvenliği, Çevre, Sağlık, Üniversite ve Doğrulama Servisleri) faaliyet gösteren uluslararası bağımsız bir mühendislik ve güvenlik şirkettir. 1894 yılında kurulduğundan bugüne kadar 100'ü aşkın ülkede yaklaşık 70.000 üreticinin ürettiği 20.000 farklı çeşitte toplam 20 milyar civarında UL damgalı ürün piyasada bulunmaktadır.
- UL mühendisleri binlerce çeşit ürünü, malzemeyi, yapıyı ve sistemi, elektrik, yangın ve yaralanma risklerine karşı bilimsel olarak değerlendirirler ve test ederler.
- UL, güvenilirlik konusunda birbirinden farklı ürün ve sistemleri kapsayan toplam 1200 adet standart geliştirmiştir ve bu standartlar 200' den fazla endüstri için temel yapı taşı olmuştur.
- UL' in resmi internet sitesinde ürün sertifikalarının bulunduğu bir rehber bulunmaktadır ve bu rehberde UL sertifikalı tüm ürünlere ve bu ürünleri üreten üreticilere ulaşılabilir.

UL Güvenlik Standardı: UL 448

- UL 448 standardı, yangın sistemlerinde kullanılan pompaların tasarımlarının nasıl yapılması gerektiğini ve test koşullarını içermektedir.
- Bu standardın temelini NFPA 20 "Yangın Sistemleri için Pompaların Kurulumu" standardı oluşturmaktadır. Birçok özellik NFPA 20' deki gibidir ancak fazla olarak birkaç husus daha eklenerek gereklilikler genişletilmiştir.

FM Kimdir, Ne Yapar:

- FM (Factory Mutual) Global, temel olarak yangın, doğal afet ve benzeri risklere karşı korunmak üzere mühendislik çözümleri sunan dünyanın en büyük sigorta şirketlerinden biridir.
- FM Approvals, FM Global' in şirketler için endüstriyel ve ticari ürün ve servisleri sertifikalandıran birimdir. Bir ürün veya servis FM Approvals standartlarına uygunluğu sağlarsa, ürüne "FM APPROVED" markalaması yapılır.
- Şu ana kadar toplam 45.000 çeşit ürün / servis FM tarafından sertifikalandırılmıştır ve bu ürünler FM' in resmi internet sitesinde "FM Approval Guide" içerisinde yayınlanmaktadır.

FM Onay Standardı: 1311 / 1319

- FM 1311 standardı, yatay / dikey aksenal ayrılabilir gövdeli santrifüj yangın pompaları için, FM 1319 ise yatay uçtan emişli santrifüj yangın pompaları için onay kriterlerini içermektedir.
- Bu standarttaki gereklilikler temel olarak ANSI Hidrolik Enstitüsü (HI) ve NFPA 20 standartları esaslıdır.

Design Features according to UL & FM:

- Only the specified capacities in the below table are allowed for rated capacity. For capacities higher than 5000 GPM, 500 GPM increments are allowed.

GPM	m ³ /h	GPM	m ³ /h	GPM	m ³ /h
25	5.68	400	90.8	2000	454
50	11.3	450	102.2	2500	568
100	22.7	500	113.5	3000	681
150	34.0	750	170	3500	795
200	45.4	1000	227	4000	909
250	56.8	1250	284	4500	1022
300	68.1	1500	341	5000	1136

- All interior bolt or screw that are exposed to pumped liquid shall be of rolled bronze or corrosion resistant material
- The pump shall be provided with automatic air-release valve, circulation relief valve and pressure gauges
- Bearings shall have an L-10 rating of not less than 5000 hours at maximum load.
- The pumps shall be provided with at least four packing rings plus a lantern ring. The lantern ring may be permitted to replace one ring of packing.
- Impellers, wear rings, shafts, lantern rings, glands shall be made of corrosion resistant material.
- Following material specifications are applied to STANDART UL/FM fire pumps:

UL/FM' e göre Tasarım Özellikleri:

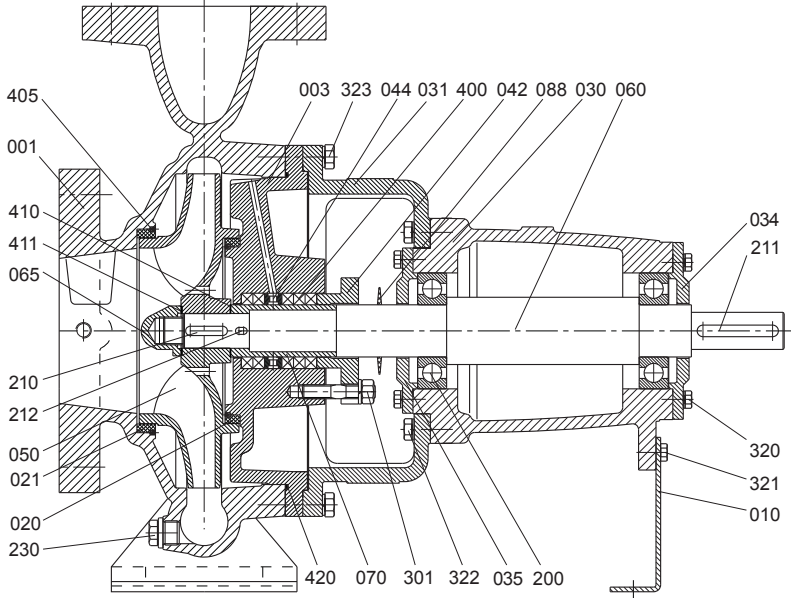
- Beyan edilen debi değeri sadece aşağıdaki tabloda belirtilen debi değerlerinde olmalıdır. Bunlarınharicindeki debiler kabul edilmez. 5000 GPM' den sonra debi değeri 500 GPM adımıyla artmaya devam eder.
- Basılan sıvı ile temas eden tüm civatalar, vidalar vs bronz veya korozyona dayanıklı malzemeden imal edilmelidir.
- Yangın pompası, otomatik hava tahliye ventili, gövde soğutma vanası ve manometreler ile birlikte tedarik edilmelidir.
- Rulmanlar maksimum yükleme durumunda en az 5000 saat L-10 ömürlü olmalıdır.
- Yangın pompaları en az 4 sarım yumuşak salmastra ve aralarında bir adet sulama halkası ile birlikte tedarik edilmelidir. Sulama halkası konulmayacaksa en az 5 sarım yumuşak salmastra olmalıdır.
- Yangın pompası çarkı, aşınma halkaları, mili, sulama halkası ve glenleri korozyona dayanıklı malzemeden imal edilmelidir.
- STANDART marka UL/FM yangın pompaları aşağıdaki malzeme kombinasyonuna göre imal edilmektedir:

Part List Parça Listesi	Definition Tanım	DIN 17007	EN-DIN	ASTM
Casing Gövde	Nodular cast iron Sfero döküm	0.7040	GGG 40 (GJS-400-15)	A 536 Gr. 60-40-18
Impeller Çark	Cast bronze Bronz döküm	2.1050.01	G-CuSn 10	B 584 C 90700
Shaft Mil	Stainless steel Paslanmaz çelik	1.4021	X20 Cr 13	A 276 Type 420
Shaft sleeve Mil burcu	Stainless steel Paslanmaz çelik	1.4401	X5 Cr Ni Mo 17-12-2	A 276 Type 316

Sectional Drawings Kesit Resimleri

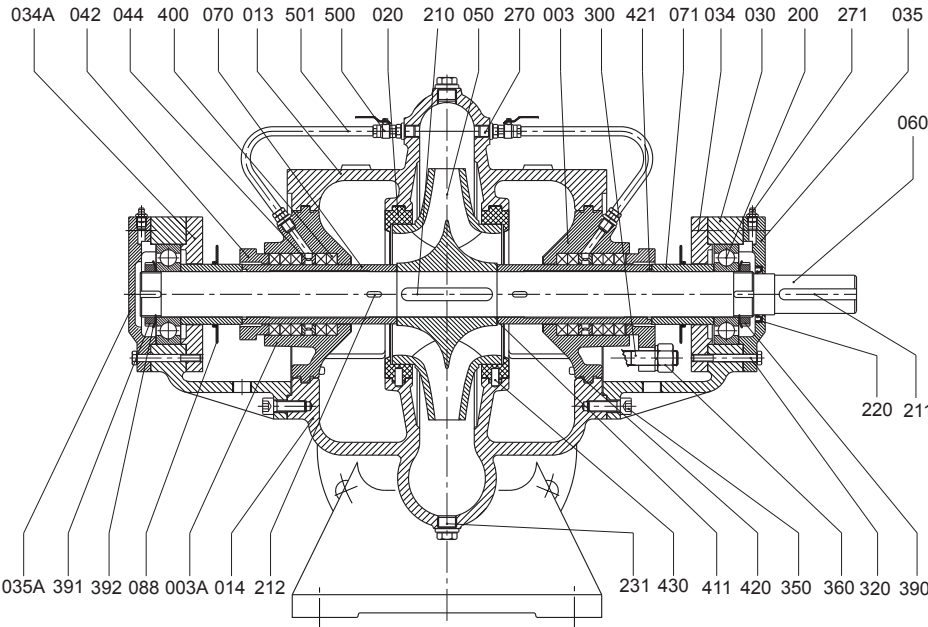


SNK 50-250 , SNK 65-250 , SNK 80-250

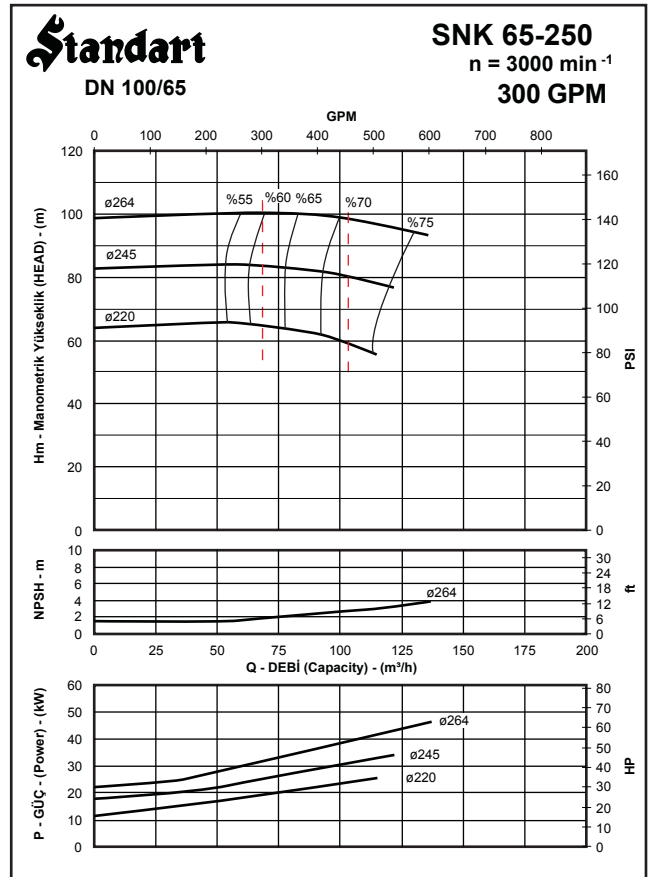
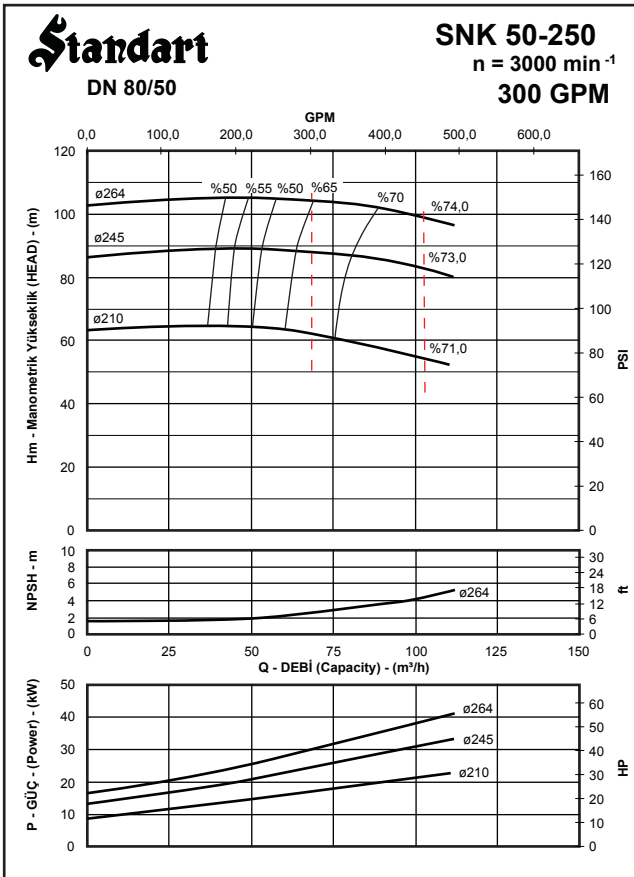
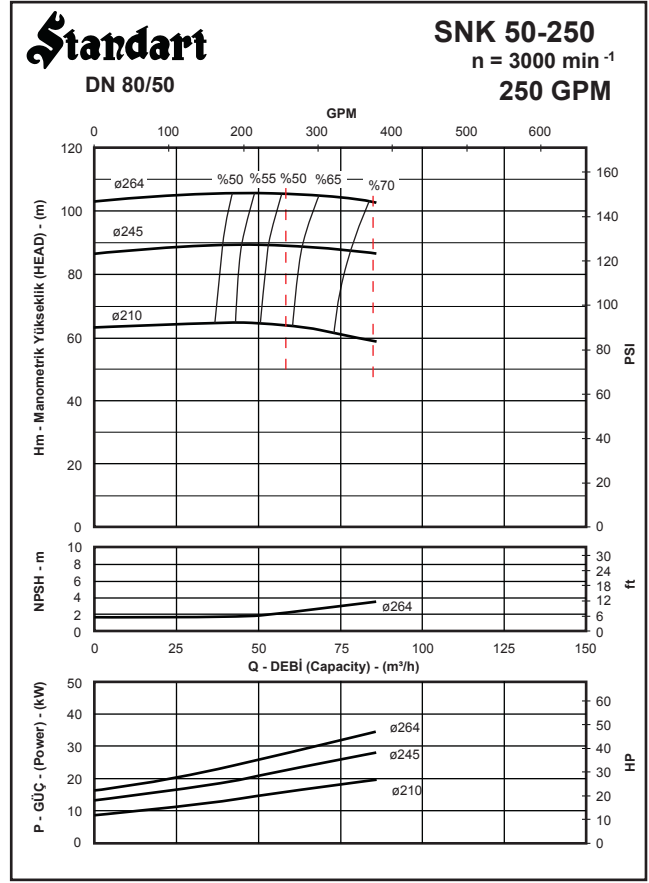
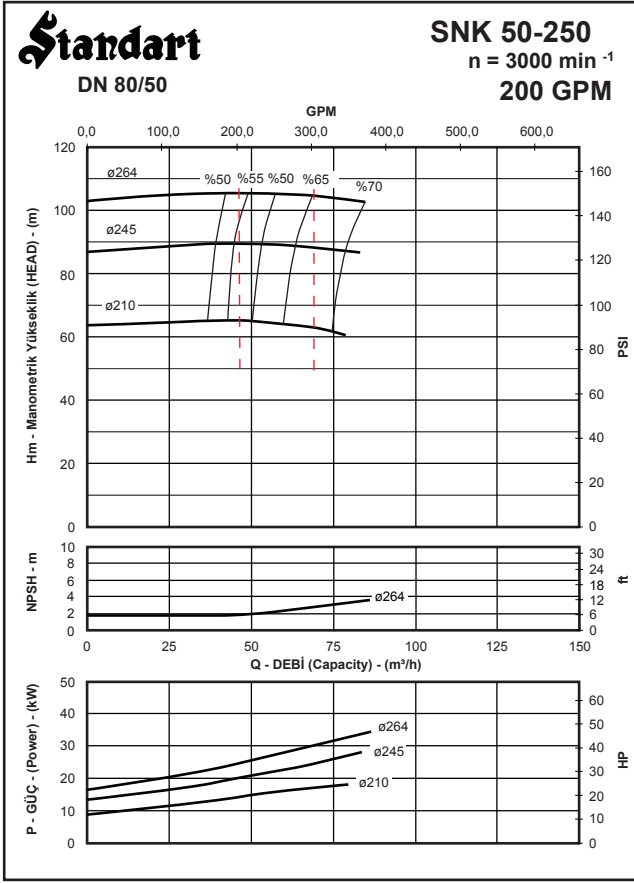


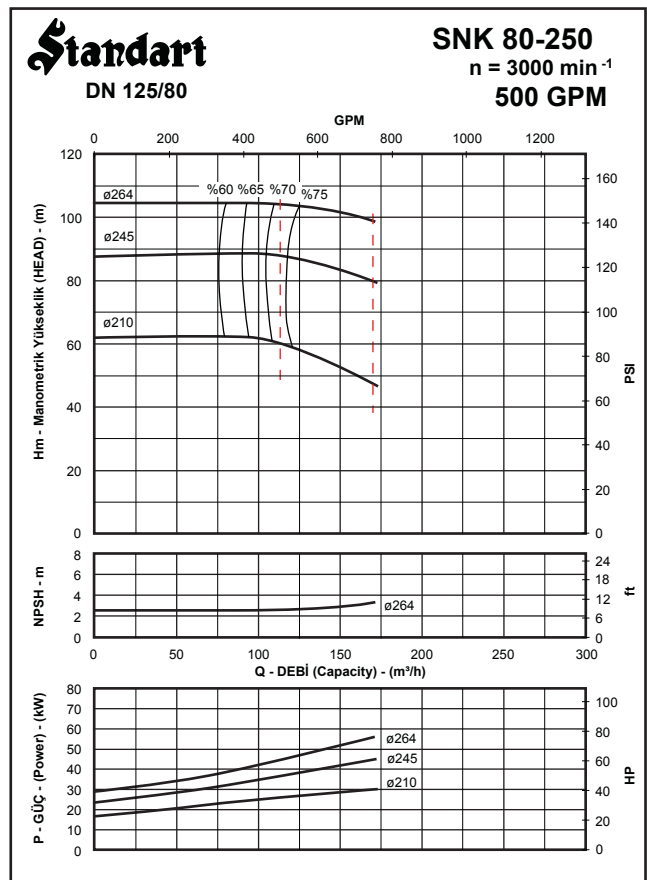
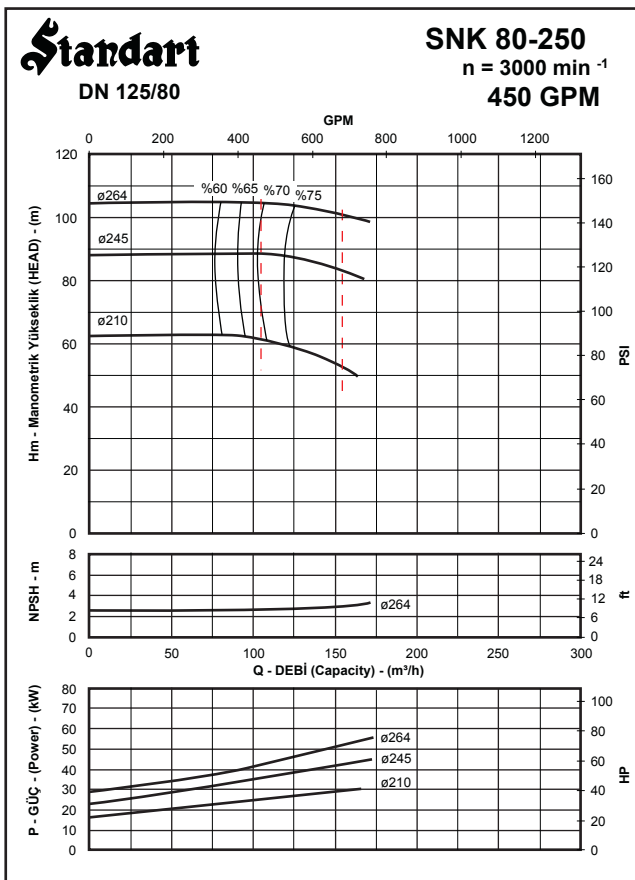
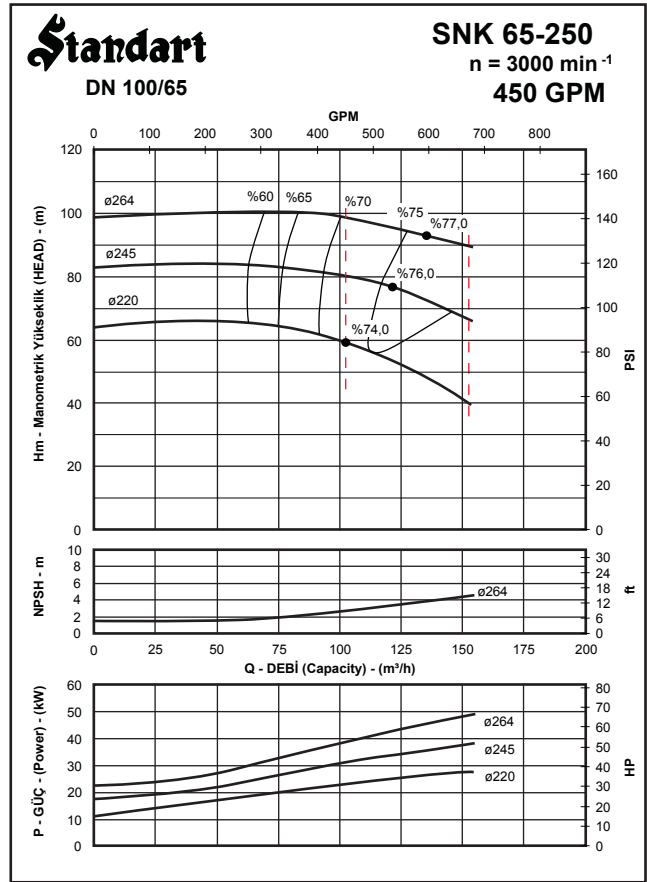
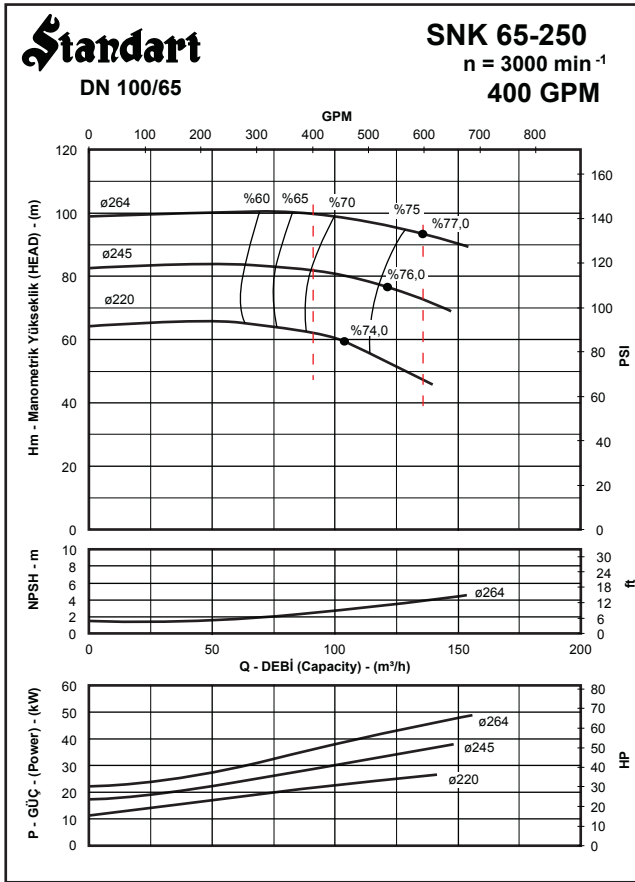
Part Number Parça No	Part Name	Parçanın Adı
001	Volute Casing	Salyangoz Gövde
003	Stuffing Box	Salmastra Yatağı
010	Support Foot	Destek Ayak
020	Wear Ring (back)	Aşınma Halkası (arka)
021	Wear Ring (front)	Aşınma Bileziği (ön)
030	Bearing Housing	Rulman Yatağı
031	Bearing Bracket Lantern	Ara Parça
034	Bearing Cover (outboard)	Rulman Kapağı (dış)
035	Bearing Cover (inboard)	Rulman Kapağı (iç)
042	Stuffing Box Gland	Glen
044	Lantern Ring	Sulama Halkası
050	Impeller	Çark
060	Shaft	Mil
065	Impeller Nut	Çark Somunu
070	Shaft Protecting Sleeve	Mil Burcu
088	Thrower	Su Siperi
200	Ball Bearing	Bilyalı Rulman
210	Impeller Key	Çark Kaması
211	Coupling Key	Kaplin Kaması
212	Sleeve Key	Burç Kaması
230	Drain Plug	Boşaltma Tapası
301	Stud+Nut+Washer	Saplama+Somun+Pul
320	Hex. Head Bolt	Cıvata
321	Hex. Head Bolt	Cıvata
322	Hex. Head Bolt	Cıvata
323	Hex. Head Bolt	Cıvata
400	Stuffing Box Packing	Yumuşak Salmastra
405	Set Screw	Setuskur
410	Gasket	Conta
411	Gasket	Conta
420	O-Ring	O-Ring

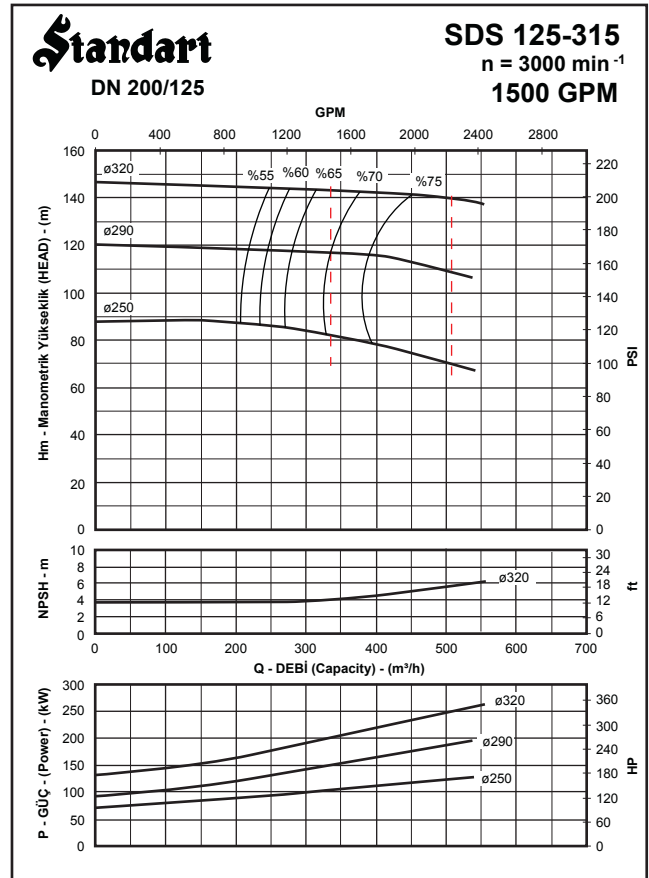
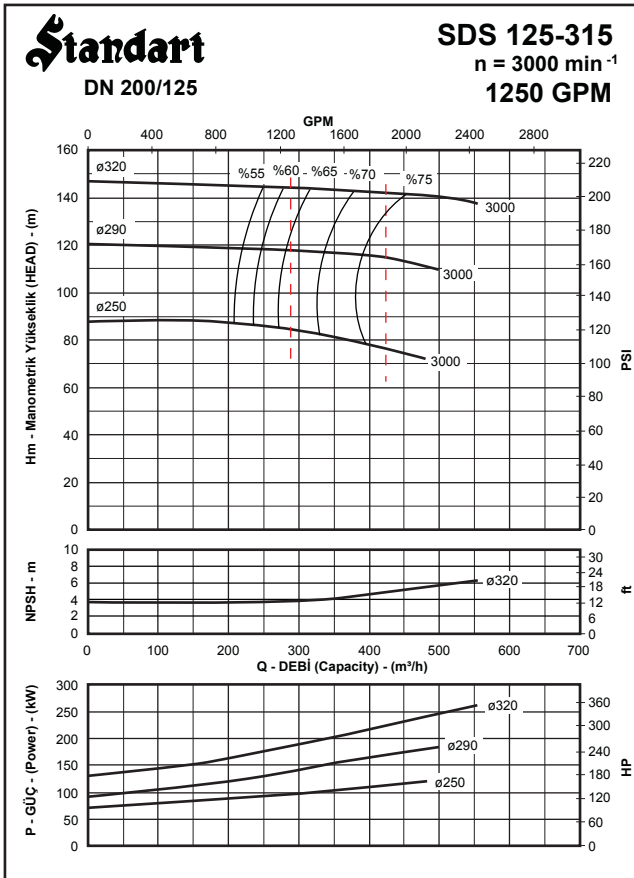
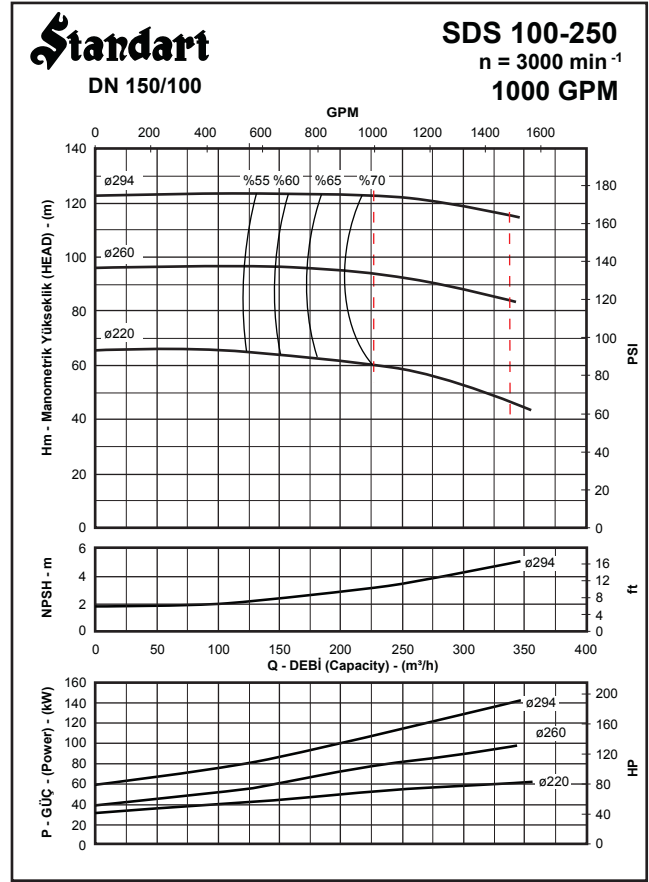
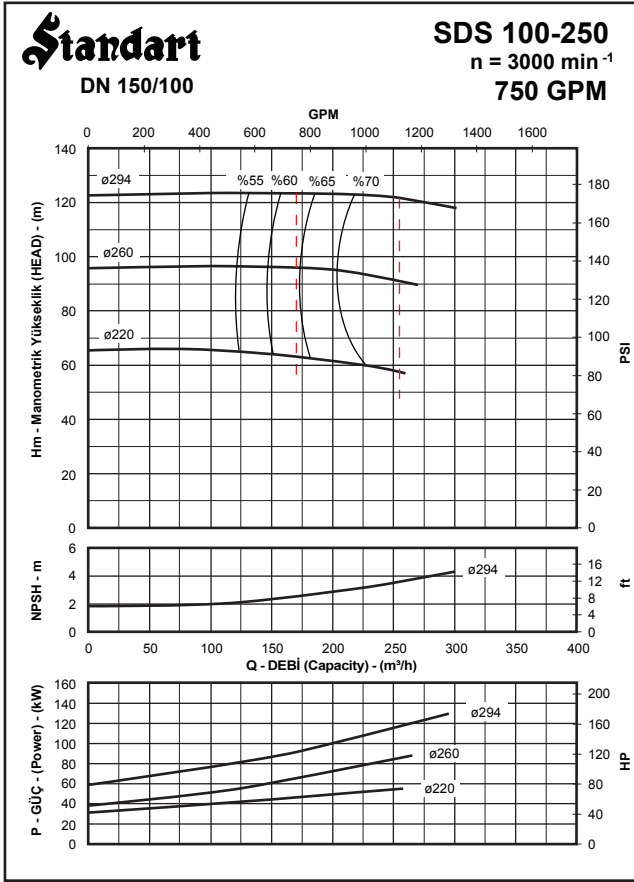
SDS 100-250 , SDS 125-315



Part Number Parça No	Part Name	Parçanın Adı
003	Stuffing Box (right side)	Salmastra Kutusu (sağ taraf)
003A	Stuffing Box (left side)	Salmastra Kutusu (sol taraf)
013	Volute Casing (top)	Gövde (üst)
014	Volute Casing (bottom)	Gövde (alt)
020	Wear Ring	Aşınma Halkası
030	Bearing Housing	Rulman Yatağı
034	Bearing Cover (inboard)	Rulman Kapağı (iç)
034A	Bearing Cover (inboard)	Rulman Kapağı (iç)
035	Bearing Cover (outboard)	Rulman Kapağı (dış)
035A	Bearing Cover (outboard)	Rulman Kapağı (dış)
042	Stuffing Box Gland	Glen
044	Lantern Ring	Sulama Halkası
050	Impeller	Çark
060	Shaft	Mil
070	Shaft Protecting Sleeve	Mil Burcu
071	Sleeve (spacer)	Salmastra Burcu
088	Thrower	Su Siperi
200	Ball Bearing	Bilyalı Rulman
210	Impeller Key	Çark Kaması
211	Coupling Key	Kaplin Kaması
212	Key	Burç Kaması
220	Oil Seal	Yağ Keçesi
231	Drain Plug	Boşaltma Tapası
270	Nipple	Nipel
271	Grease Nipple	Gres Nipeli
300	Stud	Saplama (glen)
320	Hex. Head Bolt	Cıvata (rulman kapağı)
350	Allen Screw	Allen Cıvata
360	Nut	Somun (glen)
390	Locknut (non drive end)	Emniyet Somunu
391	Locknut (drive end)	Emniyet Somunu
392	Lock Washer	Emniyet Segmanı
400	Stuffing Box Packing	Yumuşak Salmastra
411	Gasket	Conta
420	O-Ring	O-Ring
421	O-Ring	O-Ring
430	Pin	Pim
500	Valve	Vana
501	Flushing Pipe	Boru







Selection Table Seçim Tablosu

UL Listed & FM Approved Fire Pumps for 3000 rpm UL Listeli & FM Onaylı Yangın Pompaları 3000 d/dak								
Pump Type Pompa Tipi	Capacity Debi (GPM / m3/h)	Pressure Basınç (bar/psi)	Power Güç (%100) (kW)	Power Güç (%150) (kW)	Diesel Engine Dizel Motor CLARKE Model	Diesel Engine Rated Power Dizel Motor Anma Gücü kW /HP	Electric Motor Rated Power Elektrik Motoru Anma Gücü (kW)	
SNK 50-250	200 / 45,4	6,4 / 93	13,5	16,6	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	15	
		7 / 101,5	15	18,4	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	18,5	
		8 / 116	17,6	21,6	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	22	
	250 / 56,8	9 / 130,5	20,4	24,9	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30	
			10,34 / 150	24,1	29,3	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30
		6,27 / 91	15,3	19,1	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	18,5	
			7 / 101,5	17,1	21,3	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	18,5
			8 / 116	19,8	24,2	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	22
			9 / 130,5	22,7	28,4	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30
	300 / 68,1	10,34 / 150	26,7	33	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30	
			6,06 / 88	16,6	21,1	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	18,5
		7 / 101,5	19,1	24,2	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	22	
8 / 116			22	28,1	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30	
9 / 130,5			25,1	32,1	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30	
10,2 / 148			29,1	37,2	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	37	
SNK 65-250	300 / 68,1	6,34 / 92	19,6	23,6	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	22	
		7 / 101,5	21,7	26,4	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30	
		8 / 116	25,1	30,9	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30	
	400 / 90,8	9 / 130,5	28,8	35,6	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	37	
			9,8 / 142	32	39,7	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	37
		6,06 / 88	22,4	26,8	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30	
			7 / 101,5	25,9	31,4	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30
			8 / 116	29,7	36,6	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	37
			9 / 130,5	33,9	42,2	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	45
	450 / 102,2	9,78 / 142	37,2	46,7	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	45	
			5,79 / 84	23,6	27,7	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30
		7 / 101,5	28,2	33,9	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	37	
8 / 116			32,3	39,4	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	37	
9 / 130,5			36,6	45,4	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	45	
9,71 / 141			39,7	49,7	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	45	
SNK 80-250	450 / 102,2	6 / 87	25,9	29,8	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30	
		7 / 101,5	30	35,4	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	37	
		8 / 116	34,5	40,7	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	37	
	500 / 113,5	9 / 130,5	39,1	47,5	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	45	
			10,2 / 148	45,1	53	JU4H-UF14 , JU4R-UF23 (Rad)	53/71, 58/78	55
		5,79 / 84	26,5	30,6	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	30	
			7 / 101,5	31,8	37,7	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	37
			8 / 116	36,5	44	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	45
			9 / 130,5	41,4	50	JU4H-UF14 , JU4R-UF13 (Rad)	53/71, 50/66,5	55
	10,2 / 148	47,5	57,8	JU4H-UF24 , JU4R-UF23 (Rad)	62/83, 58/77	55		

Selection Table Seçim Tablosu



UL Listed & FM Approved Fire Pumps for 3000 rpm UL Listeli & FM Onaylı Yangın Pompaları 3000 d/dak									
Pump Type Pompa Tipi	Capacity Debi (GPM / m3/h)	Pressure Basınç (bar/psi)	Power Güç (%100) (kW)	Power Güç (%150) (kW)	Diesel Engine Dizel Motor CLARKE Model	Diesel Engine Rated Power Dizel Motor Anma Gücü kW /HP	Electric Motor Rated Power Elektrik Motoru Anma Gücü (kW)		
SDS 100-250	750 / 170	6,13 / 89	46,6	53	JU4H-UF14 , JU4R-UF23 (Rad)	53/71, 58/78	55		
		7 / 101,5	51,2	61,8	JU4H-UF24	62/83	75		
		8 / 116	56,8	70,9	JU4H-UF34 , JU4R-UF53 (Rad)	86/115, 99/133	75		
		9 / 130,5	62,6	78,8	JU4H-UF34 , JU4R-UF53 (Rad)	86/115, 99/133	75		
		10 / 145	70,3	90,8	JU4H-UF54 , JU4R-UF53 (Rad)	108/145, 99/133	90		
	1000 / 227	11 / 159,5	79,7	102	JU4H-UF54	108/145	110		
		11,85 / 172	90,8	115,5	JU6H-UF34	131/175	110		
		5,86 / 85	52,1	60,9	JU4H-UF24	62/83	75		
		7 / 101,5	60,5	74,9	JU4H-UF34 , JU4R-UF53 (Rad)	86/115, 99/133	75		
		8 / 116	68,3	87,7	JU4H-UF54 , JU4R-UF53 (Rad)	108/145, 99/133	90		
SDS 125-315	1250 / 284	9 / 130,5	76,5	101	JU4H-UF54	108/145	110		
		10 / 145	85,9	113	JU6H-UF34	131/175	110		
		11 / 159,5	96	126	JU6H-UF34	131/175	132		
		11,8 / 171	107	138,6	JU6H-UF54	161/216	132		
		8,06 / 117	93,1	108	JU4H-UF54	108/145	110		
	1500 / 340	9 / 130,5	104	124	JU6H-UF34	131/175	132		
		10 / 145	117	142	JU6H-UF54	161/216	160		
		11 / 159,5	130	160	JU6H-UF54	161/216	160		
		12 / 174	146	179	JU6H-UF84	205/275	185		
		13 / 188,5	164	200	JU6H-UF84	205/275	200		
SDS 125-315	1500 / 340	13,72 / 199	178	216	-	-	250		
		7,72 / 112	98,6	115,5	JU6H-UF34	131/175	110		
		9 / 130,5	115	145	JU6H-UF54	161/216	132		
		10 / 145	129	159	JU6H-UF54	161/216	160		
		11 / 159,5	144	178	JU6H-UF84	205/275	185		
	1500 / 340	12 / 174	161	200	JU6H-UF84	205/275	200		
		13 / 188,5	179	223	-	-	250		
		13,65 / 198	193	239	-	-	250		

Certificate of Compliance

Certificate Number 20100429-EX15693
Report Reference EX15693, 2010 April 29
Issue Date 2010 April 29



Issued to: **STANDART POMPA VE MAKINA SAN VE TIC AS**

IDOS ORGANIZE SAN BOL
2 CAD N9 Y DUDULLU
UMRANIYE TURKEY

This is to certify that representative samples of **CENTRIFUGAL FIRE PUMPS, SPLIT CASE**
Models: SDS 100-250 and SDS 125-315

Have been investigated by Underwriters Laboratories Inc.® (UL) or any authorized licensee of UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: Pumps for Fire-Protection Service, UL 448

Additional Information: See UL On-Line Certification Directory at www.UL.com for additional information.

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle; with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

Issued by:
William R. Carney
Director, North American Certification Programs
Underwriters Laboratories Inc.
For information and documents including UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL. For questions, please contact the local UL Customer Service Representative at <http://www.UL.com/global.asp?page=corporate/contact>

Certificate of Compliance

Certificate Number 20100608-EX15743
Report Reference EX15743, 2010 April 29
Issue Date 2010 June 8



Issued to: **STANDART POMPA VE MAKINA SAN VE TIC AS**

IDOS ORGANIZE SAN BOL
2 CAD N9 Y DUDULLU
UMRANIYE TURKEY

This is to certify that representative samples of **CENTRIFUGAL FIRE PUMPS, END SUCTION**
Model designation: SNK 50-250, SNK 65-250, and SNK 80-250

Have been investigated by Underwriters Laboratories Inc.® (UL) or any authorized licensee of UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: Pumps for Fire-Protection Service, UL 448

Additional Information: See UL On-Line Certification Directory at www.UL.com for additional information.

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle; with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

Issued by:
William R. Carney
Director, North American Certification Programs
Underwriters Laboratories Inc.
For information and documents including UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL. For questions, please contact the local UL Customer Service Representative at <http://www.UL.com/global.asp?page=corporate/contact>



Certificate of Compliance

This certificate is issued for the following:

**CENTRIFUGAL FIRE PUMPS
(HORIZONTAL END SUCTION TYPE)**

MODELS SNK 50-250, SNK 65-250 and SNK 80-250

Prepared for:

Standart Pompa ve Mak. San. Tic. A.S.
Dudullu Organize San. Böl.
2. Cadde, No. 9
Esenkent - Ümraniye
Istanbul, Turkey

Manufactured at:

Standart Pompa ve Mak. San. Tic. A.S.
Dudullu Organize San. Böl.
2. Cadde, No. 9
Esenkent - Ümraniye
Istanbul, Turkey

FM Approvals Class: 1319

Approval Identification: 0003039074

Approval Granted: June 9, 2011

Said Approval is subject to satisfactory field performance, continuing follow-up Facilities and Procedures Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

For more than 160 years FM Approvals has partnered with business and industry to reduce property losses.

Richard B. Dunne
Group Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Certificate of Compliance

This certificate is issued for the following:

**CENTRIFUGAL FIRE PUMPS
(AXIAL SPLIT-CASE TYPE)**

MODELS SDS 100-250 AND SDS 125-315

Prepared for:

Standart Pompa ve Mak. San. Tic. A.S.
Dudullu Organize San. Böl.
2. Cadde, No. 9
Esenkent - Ümraniye
Istanbul, Turkey

Manufactured at:

Standart Pompa ve Mak. San. Tic. A.S.
Dudullu Organize San. Böl.
2. Cadde, No. 9
Esenkent - Ümraniye
Istanbul, Turkey

FM Approvals Class: 1311

Approval Identification: 0003038952

Approval Granted: June 3, 2011

Said Approval is subject to satisfactory field performance, continuing follow-up Facilities and Procedures Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

For more than 160 years FM Approvals has partnered with business and industry to reduce property losses.

Richard B. Dunne
Group Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062





Standart
POMPA ve MAKİNA SANAYİ TİC. AŞ.

www.standartpompa.com / e-mail: info@standartpompa.com.tr

Hævqt{"Egpgt
Hædtkæ{"O gtingj

Qti cpk g"Ucpc{kD%ai guk
"40Ecf 0P q<; "56997"Gugpngpv
"....." ucpdvri/"V@TM[G
"....."Rdz<- "; 2"438"688"; "22
"....."Hz<- "; 2"438"637"; : "82