

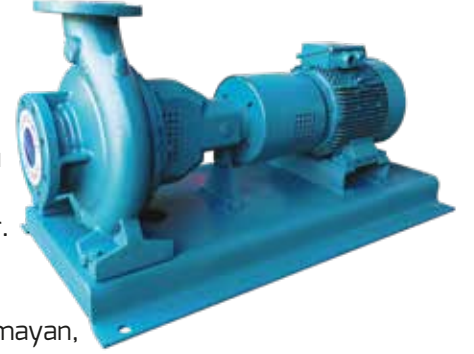
TNP-TEK KADEMELİ SANTRİFÜJ POMPALAR

Yapı

- > Yatay milli, salyangozlu, tek kademeli, uçtan emişli, kapalı çarklı santrifüj pompalar
- > Nominal çalışma noktaları ve ana boyutları TS EN 733 standartlarına uygun..
- > Arkadan sökülebilir tasarım sayesinde, salyangozu boru tesisatından ayırmadan yatak grubu, salmastra yatağı, pompa mili ve çarkı sökebilme imkanı

Mil Sızdırmazlığı:

- > Standart imalat pompalarda yumuşak salmastra kullanılır. Ancak istek halinde veya basılan sıvının cinsine ve çalışma şartlarına bağlı olarak mekanik salmastralı pompalar da imal edilebilir.
- > Mekanik salmastralı pompalarda mil paslanmaz çelik türlerinden yapılır.



Uygulamalar

- > TNP pompalar aşındırıcı olmayan, içinde katı parçacıklar ve elyaf bulunmayan, temiz veya çok hafif kirli (katı partikül oranı 0,02 ye kadar) düşük viskoziteli sıvılar basmaya uygundur.
- > Su temini, ısıtma ve soğutma amaçlı sirkülasyon için, inşaat ve endüstriyel su temininde ve tarımsal sulama için, yangınla mücadele amaçlı.

Çalışma şartları

- > Çalışma sıcaklığı -10 + 90 C arasında (daha yüksek sıcaklıklar için lütfen irtibata geçiniz)
- > Ortam sıcaklığı 40C a kadar
- > Max. Emme yüksekliği 7 m'ye kadar (emiş derinliği kontrolü için lütfen firmamıza danışın)
- > İzin verilen max. Çalışma basıncı 10 bar (16 bar)

Pompa-motor bağlantısı

- > TNP pompalar B3 yapı formunda standart bir elektrik motoruna flexible kaplin vasıtasıyla bağlanır.
- > Elektrik motorları.380 V – 50 Hz. IE3 ve IP 55 koruma sınıfındadır.
- > Elektrik motorları frekans konverteri ile çalıştırılmaya uygundur.

İsteğe bağlı özellikler

- > Sıvı cinsine bağlı özel mekanik salmastra seçimi
- > AISI 316 pompa mili
- > Diğer motor koruma sınıfları
- > Exproof motor (ATEX – 94/9 EEC direktifine uygun)
- > Diğer motor voltajları
- > 60 Hz. De çalışma
- (Lütfen çalışma değerleri kontrolü için firmamıza danışınız)

Pompa flanşları

DIN 2533'e uygun

Pompa İsimlendirmesi

Pompa tipi TNP

Basma flanş çapı (mm) DN 100

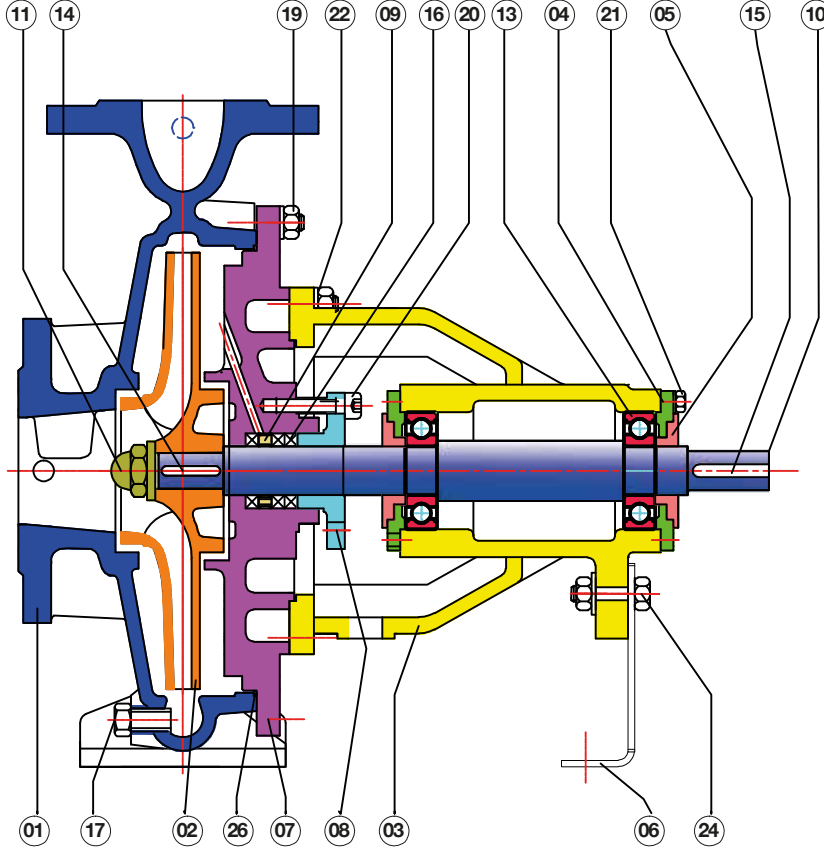
Nominal çark çapı : 270

TNP 80 - 200

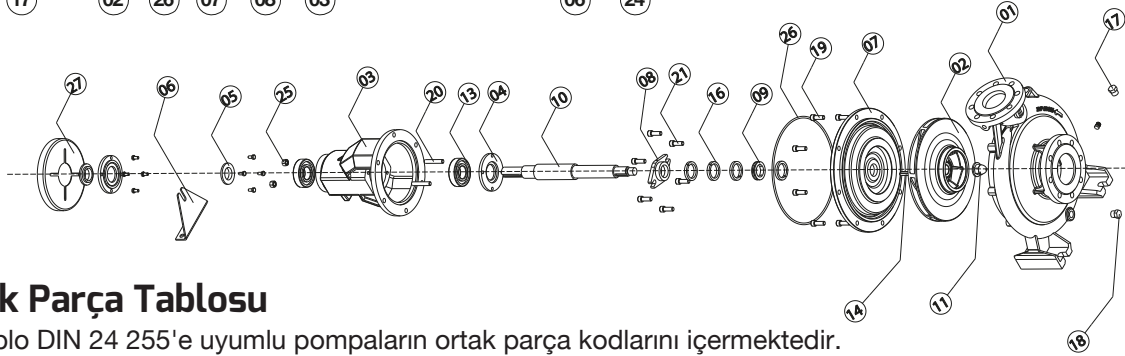
PARÇA ADI	MALZEME					
	Standart Üretim	Bronz Çarklı	Komple Bronz	Sfero Döküm	Çelik Döküm	Palanmaz Çelik
Salyangoz gövde	GG 25	GG 25	Bronz	GGG 50	G5 45	AISI 304-316
Salmastra yatağı	GG 25	GG 25	Bronz	GGG 50	G5 45	AISI 304-316
Çark	GG 25	Bronz	Bronz	GGG 50	G5 45	AISI 304-316
Glen	GGG 40	Bronz	Bronz	Bronz	Bronz	AISI 304-316
AşTNLa halkası(*)	Bronz	GG 25	Bronz	GG 25	Bronz	X20Cr13
Pompa Mili	X20Cr13	X20Cr13	X20Cr13	X20Cr13	X20Cr13	AISI 304-316
Mil movanı(*)	X20Cr13	X20Cr13	X20Cr13	X20Cr13	X20Cr13	X20Cr13
Rulman yatağı	GG 25	GG 25	GG 25	GG 25	GG 25	GG 25
Yatak kapağı	GG 25	GG 25	GG 25	GG 25	GG 25	GG 25

GENEL BOYUTLAR

Kesit Görünüş & Parça Listesi



NO	PARÇA ADI
1	Salyangoz Gövde
2	Çark
3	Rulman Yatağı
4	Rulman Kapağı
5	Su Siperi
6	Taşıyıcı Konsol
7	Salmastra Kutusu
8	Salmastra Gleni
9	Sulama Halkası
10	Mil
11	Çark Somunu
12	Su Sıçratma Diski
13	Rulman 6308 2RS 3C
14	Çark Kaması
15	Kaplin Kaması
16	Salmastra
17	Tapa
18	Tapa
19	Gövde Saplaması
20	Glen Saplaması
21	Altı Köşe Civata
22	Altı Köşe Civata
23	Altı Köşe Civata
24	Somun
25	Glen Somunu
26	O Ring
27	Muhafaza



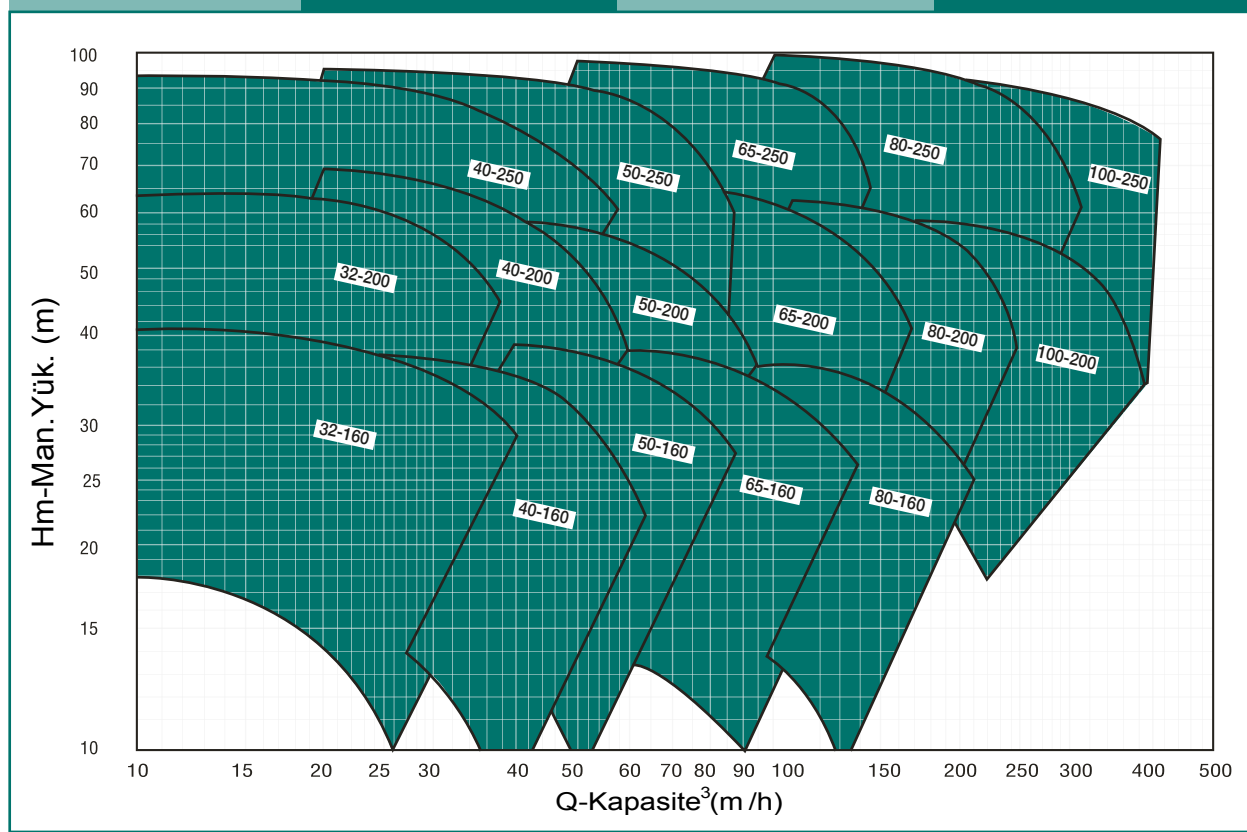
Ortak Parça Tablosu

Bu tablo DIN 24 255'e uyumlu pompaların ortak parça kodlarını içermektedir.

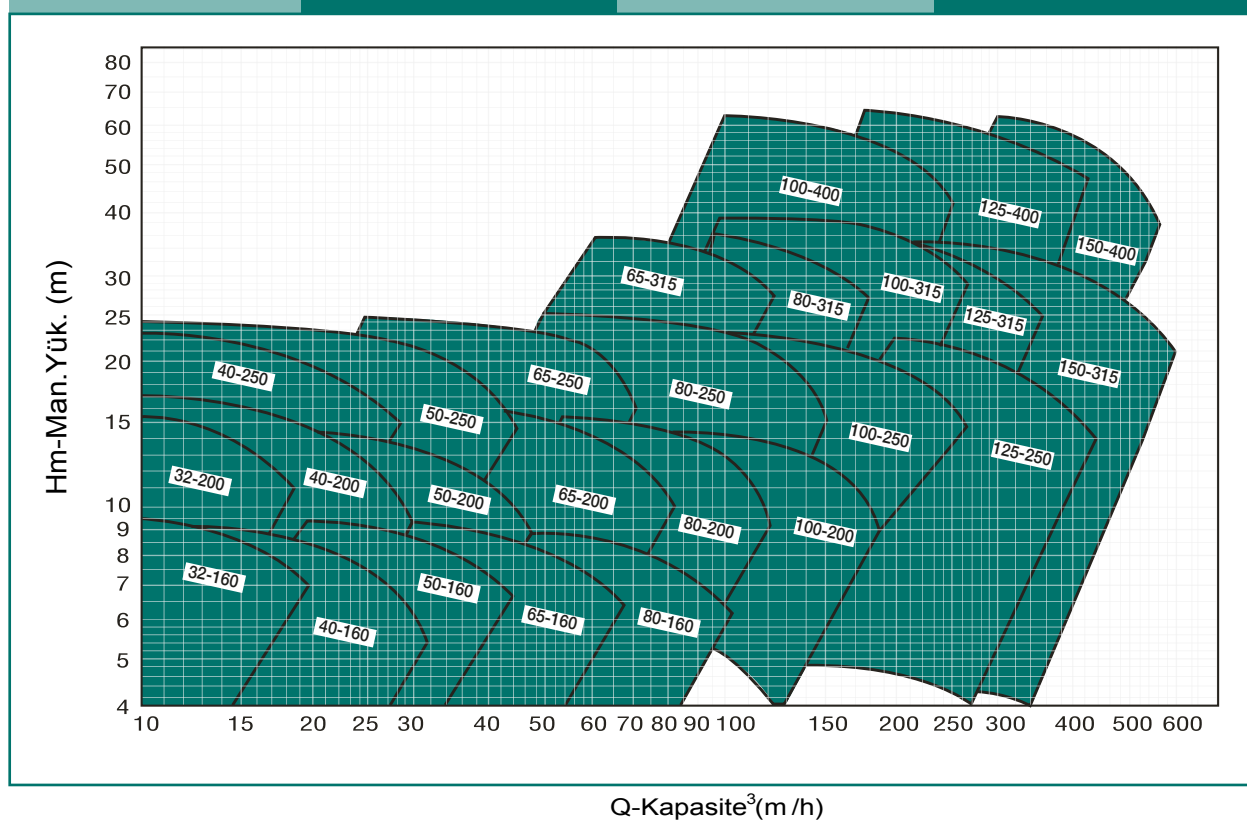
Parça No	Parça Adı	Pompa Mod	TNP 32 -160	TNP 40 -160	TNP 50 -160	TNP 65 -160	TNP 80 -160	TNP 100 -16	TNP 32 -200	TNP 40 -200	TNP 50 -200	TNP 65 -200	TNP 80 -200	TNP 100 -20	TNP 32 -250	TNP 40 -250	TNP 50 -250	TNP 65 -250	TNP 80 -250	TNP 100 -25	TNP 50 -315	TNP 65 -315	TNP 80 -315	TNP 100 -31	TNP 125 -31	TNP 150 -31	TNP 100 -40	TNP 125 -40	TNP 150 -40
Tasarım Modeli			A1 GRUBU						A2 GRUBU				B1 GRUBU	A3 GRUBU	B2 GRUBU		B3 GRUBU			C1 GRUBU	C2 GRUBU								
1	Salmastra Yatağı		A1.1 T İpi		A1.2 T İpi		A2.1 T İpi				B1 T İpi		A3 Tİpi		B2 Tİpi		B4 Tİpi	B3 Tİpi		C1 T İpi		C2 Tİpi							
2	Rulman Yatağı		A Tİpi						B Tİpi		A Tİpi		B Tİpi						C T İpi										
3	Mil		A Tİpi						B Tİpi		A Tİpi		B Tİpi						C T İpi										
4	Glen		A Tİpi						B Tİpi		A Tİpi		B Tİpi						C T İpi										
5	Rulman Kapağı		A Tİpi						B Tİpi		A Tİpi		B Tİpi						C T İpi										

TEKNİK VERİLER

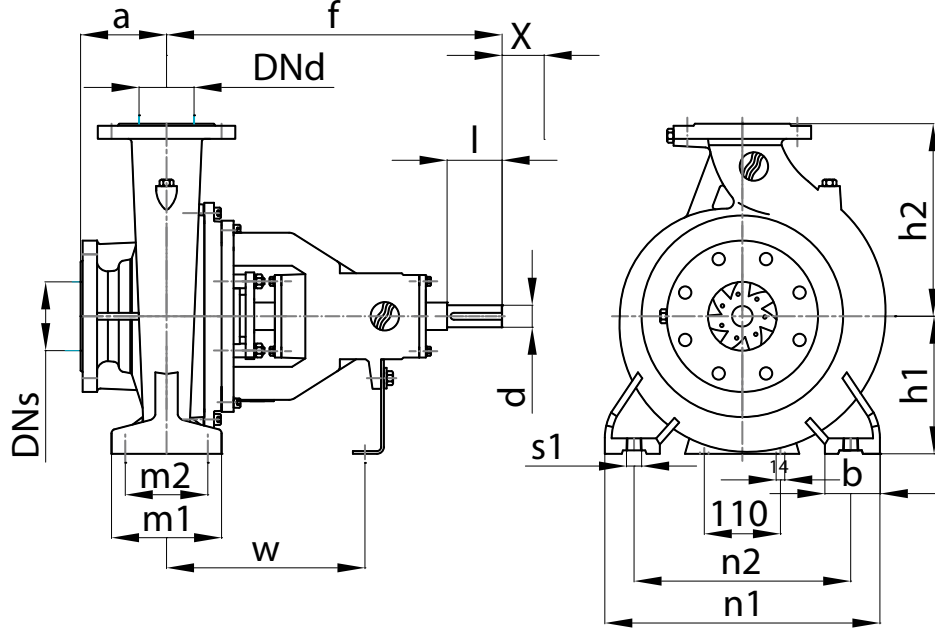
ÇALIŞMA ALANI - TNP (2900 RPM)



ÇALIŞMA ALANI - TNP (1450 RPM)

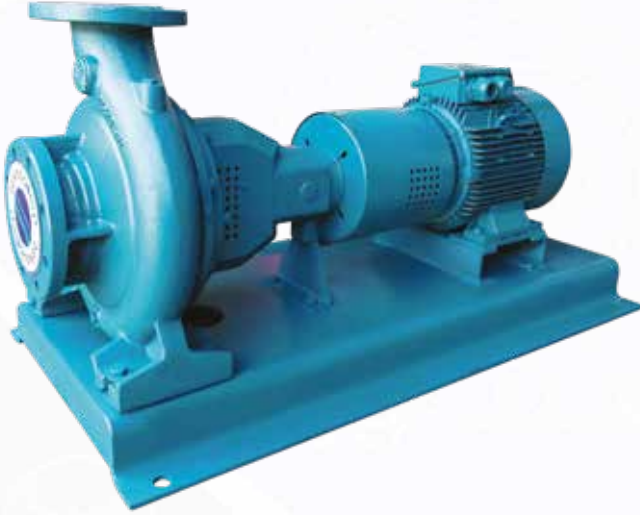


GENEL ÖLÇÜ TABLOSU

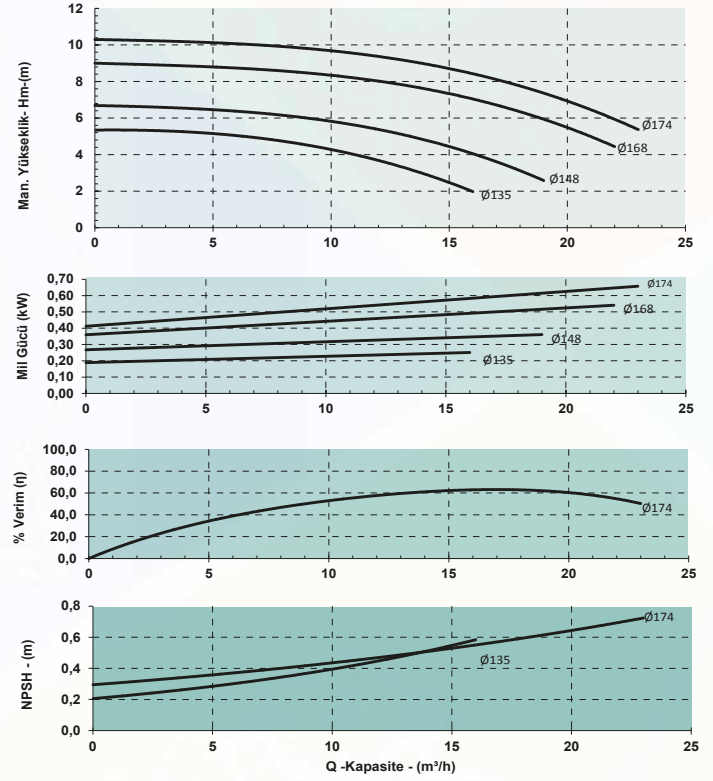


Pompa Tipleri		Flanş Ölçüleri		Dış Ölçüler				Pompa Ayak Montajı Ölçüleri						Mil Ölçüleri			Bölüntü Başlığı	
EN 733	Norm Dışı	DNs	DNd	a (mm.)	f (mm.)	h1 (mm.)	h2 (mm.)	b (mm.)	m1 (mm.)	m2 (mm.)	n1 (mm.)	n2 (mm.)	s1 (mm.)	W (mm.)	d (mm.)	l (mm.)	x (mm.)	Ağırlık (kg.)
32-160		50	32	80	360	132	160	50	100	70	240	190	M12	260	24	50	65	38
32-200				80	360	160	180	50	100	70	240	190	M12	260	24	50	65	41
	32-250			100	360	180	225	65	125	95	320	250	M12	260	24	50	80	46
40-160		65	40	80	360	132	160	50	70	70	240	190	M12	260	24	50	75	39
40-200				100	360	160	180	50	70	70	265	212	M12	260	24	50	75	45
40-250				100	360	180	225	65	96	95	320	250	M12	260	24	50	75	54
50-160		65	50	100	360	160	180	50	70	70	265	212	M12	260	24	50	80	42
50-200				100	360	160	200	50	70	70	265	212	M12	260	24	50	85	47
50-250				100	360	180	225	65	95	95	320	250	M12	260	24	50	85	55
	50-315	80		125	470	225	280	65	95	120	360	280	M16	330	32	80	100	103
65-160		80	65	100	360	160	200	65	95	95	280	212	M12	260	24	50	100	44
65-200				100	360	180	225	65	95	95	320	250	M12	260	24	50	100	48
65-250				100	470	200	250	80	120	120	360	280	M16	340	32	80	100	78
65-315				125	470	225	280	80	120	120	400	315	M16	340	32	80	110	93
	65-400	100		125	470	250	355	80	120	120	400	315	M16	340	32	80	110	126
80-160		100	80	125	360	180	225	65	95	95	320	250	M12	260	24	50	110	52
80-200				125	470	180	250	65	95	95	345	280	M12	340	32	80	110	77
80-250				125	470	200	280	80	120	120	400	315	M16	340	32	80	115	94
80-315				125	470	250	315	80	120	120	400	315	M16	340	32	80	120	108
	80-400			125	540	280	355	100	150	150	500	400	M20	370	42	110	120	163
	100-160			125	360	200	280	80	160	120	360	280	M16	260	24	50	120	75
100-200		125	100	125	470	200	280	80	160	120	360	280	M16	340	32	80	120	84
100-250				140	470	225	280	80	160	120	400	315	M16	340	32	80	130	96
100-315				140	470	250	315	80	160	120	400	315	M16	340	32	80	130	112
100-400				140	530	280	355	100	200	150	500	400	M20	370	42	110	130	170
	125-200	150	125	140	470	250	315	80	160	120	400	315	M16	340	32	80	130	107
125-250				140	470	250	355	80	160	120	400	315	M16	340	32	80	140	108
125-315				140	530	280	355	100	200	150	500	400	M20	370	42	110	140	168
125-400				140	530	315	400	100	200	150	500	400	M20	370	42	110	140	192

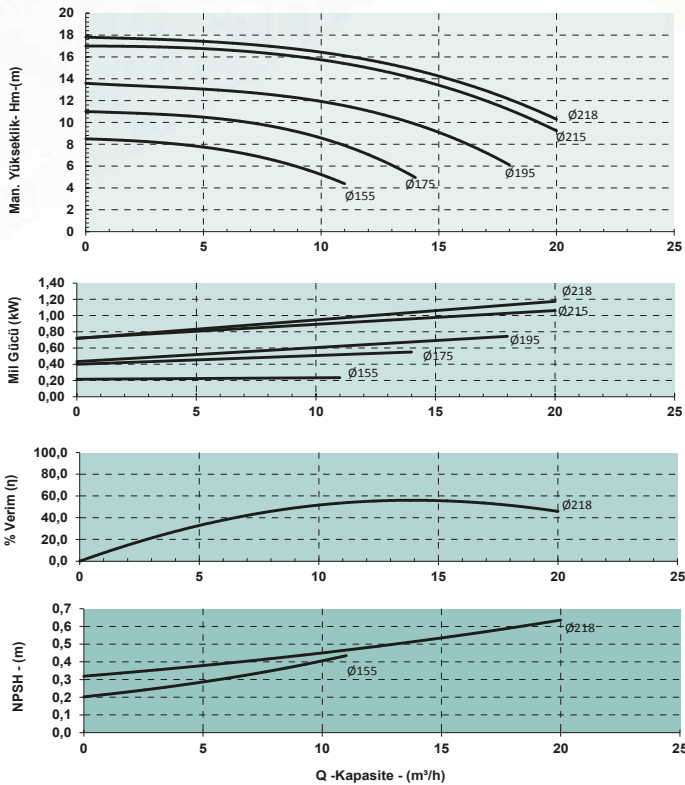
PERFORMANS EĞRİLERİ 1450 d/d



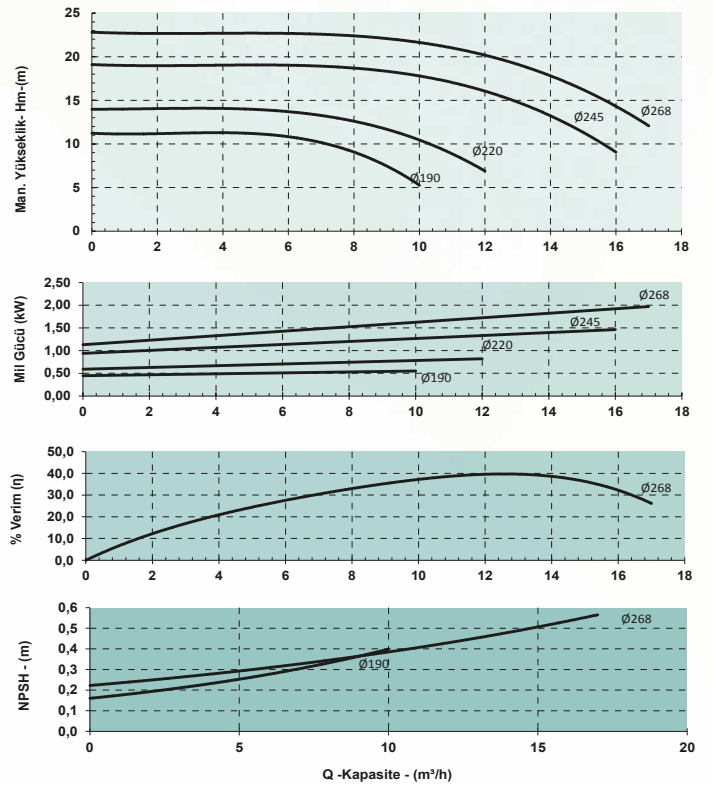
TNP 32-160 50 Hz - 1450 d/d



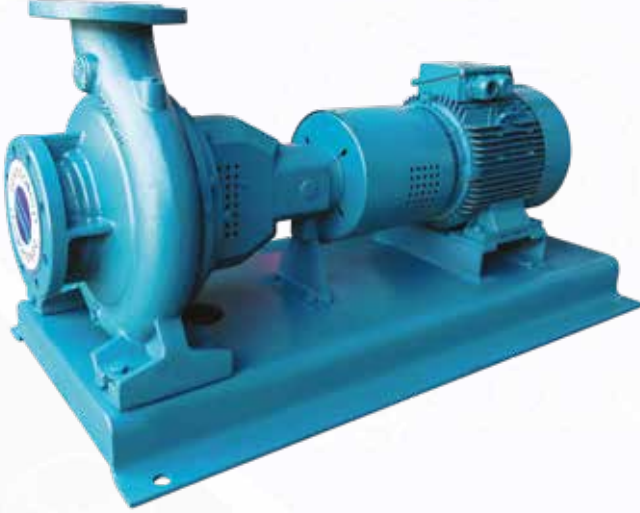
TNP 32-200 50 Hz - 1450 d/d



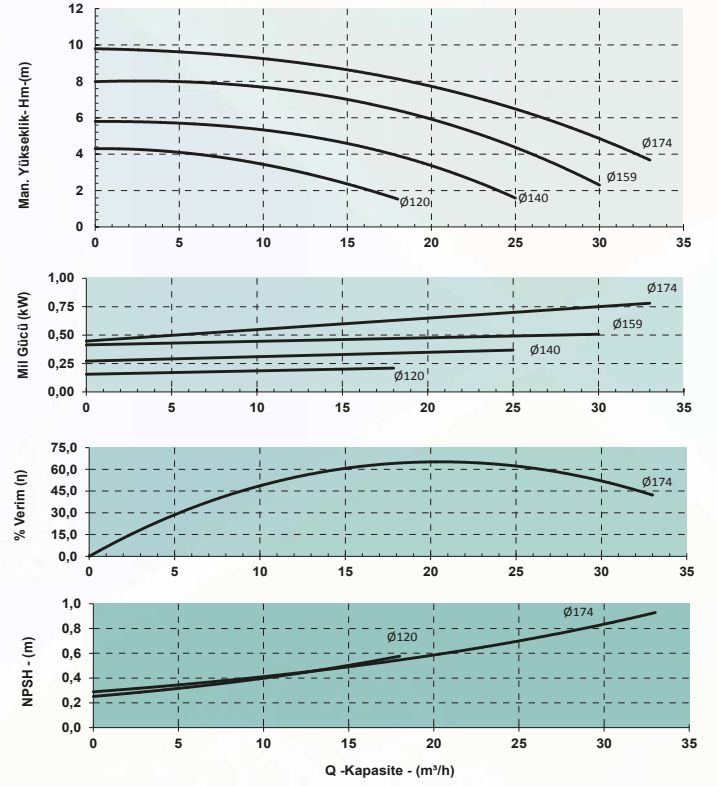
TNP 32-250 50 Hz - 1450 d/d



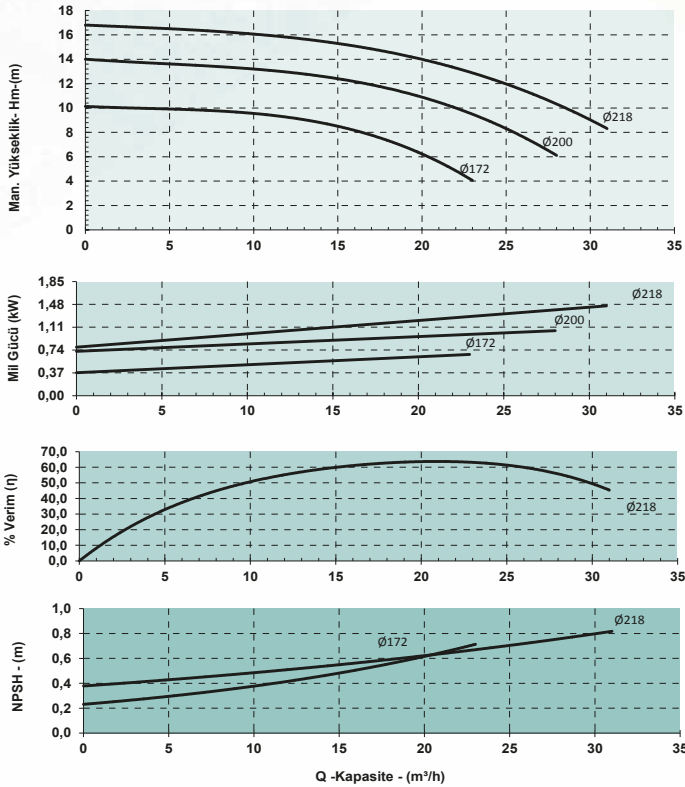
PERFORMANS EĞRİLERİ 1450 d/d



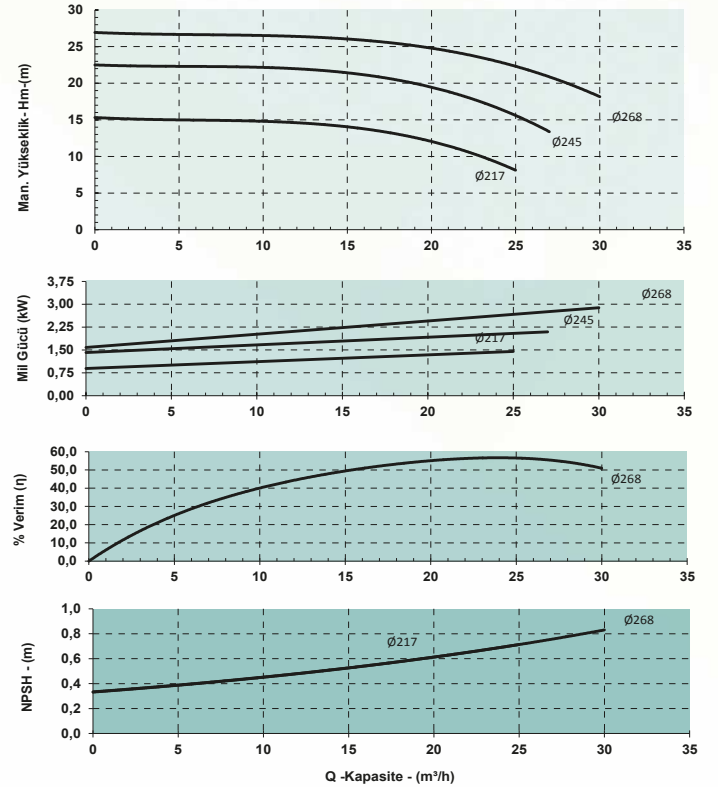
TNP 40-160 50 Hz - 1450 d/d



TNP 40-200 50 Hz - 1450 d/d

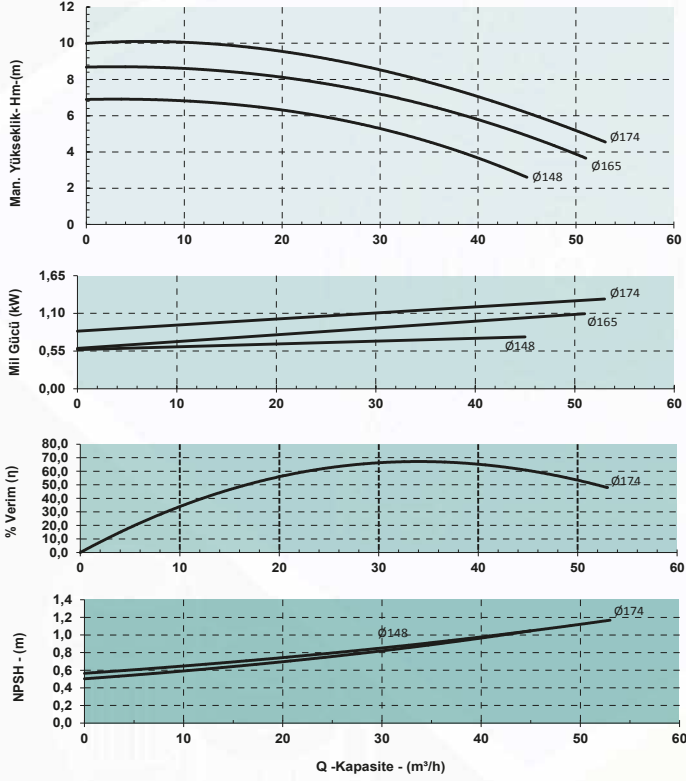


TNP 40-250 50 Hz - 1450 d/d

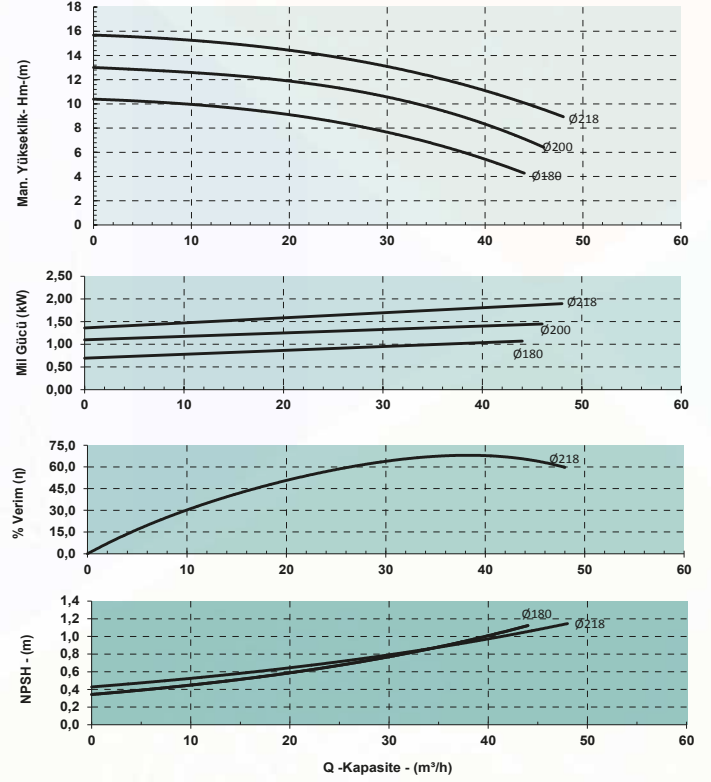


PERFORMANS EĞRİLERİ 1450 d/d

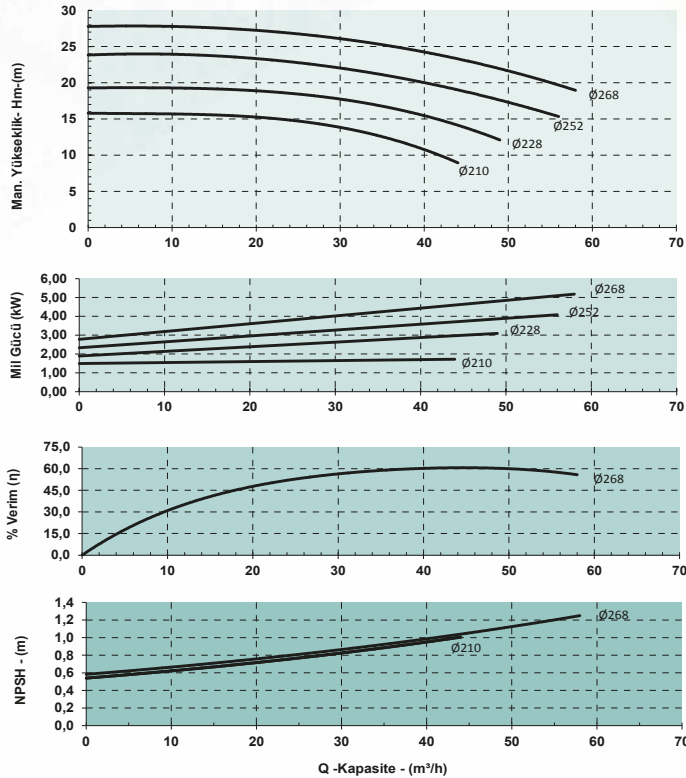
TNP 50-160 50 Hz - 1450 d/d



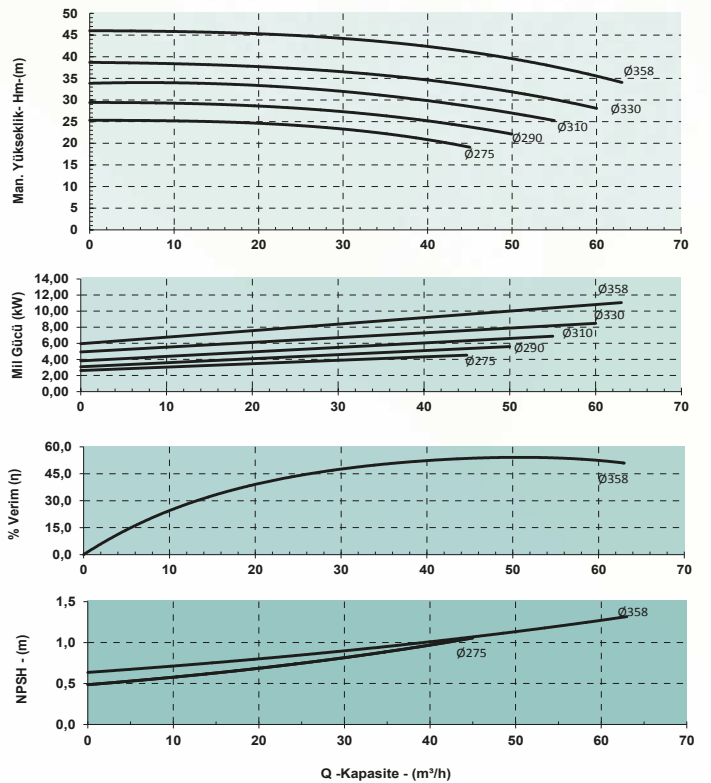
TNP 50-200 50 Hz - 1450 d/d



TNP 50-250 50 Hz - 1450 d/d

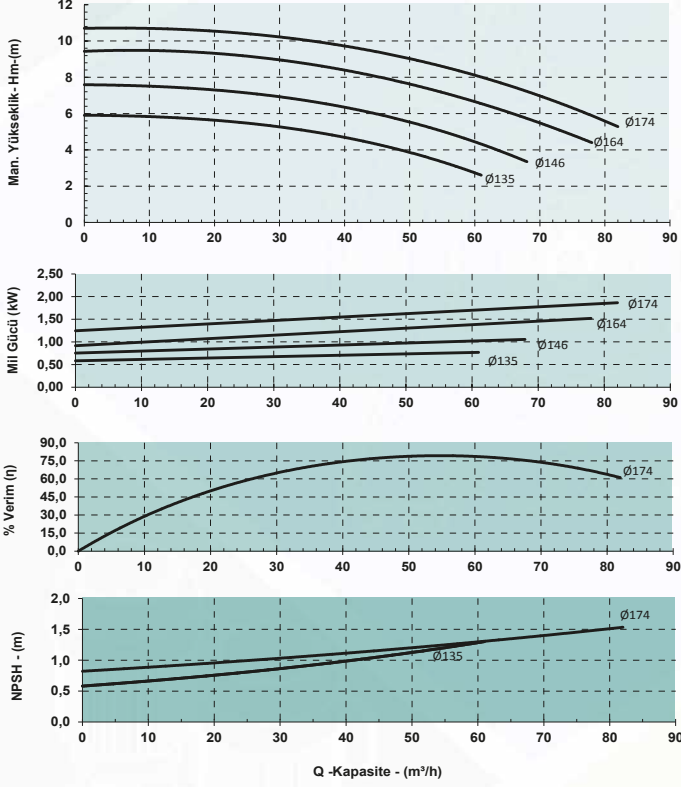


TNP 50-315 50 Hz - 1450 d/d

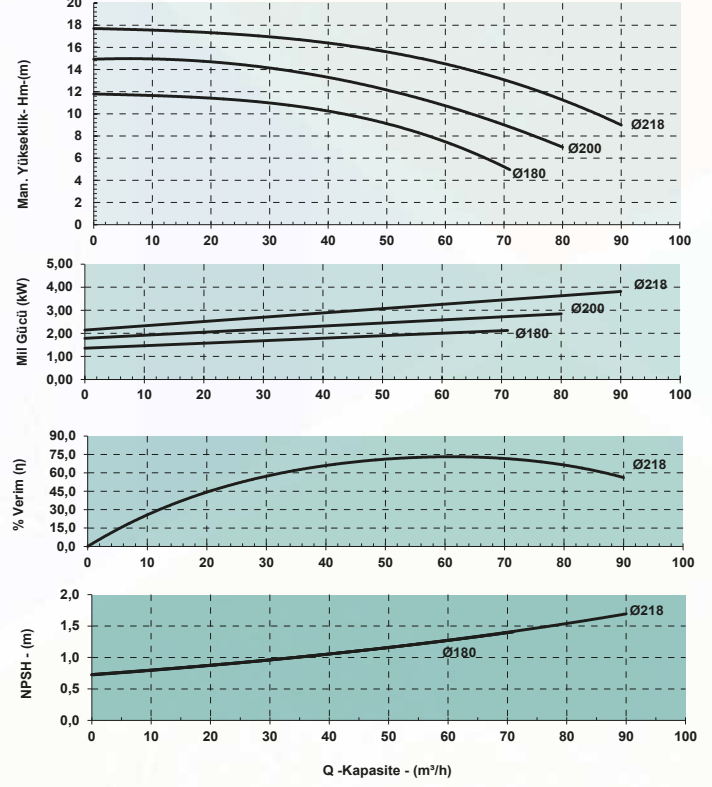


PERFORMANS EĞRİLERİ 1450 d/d

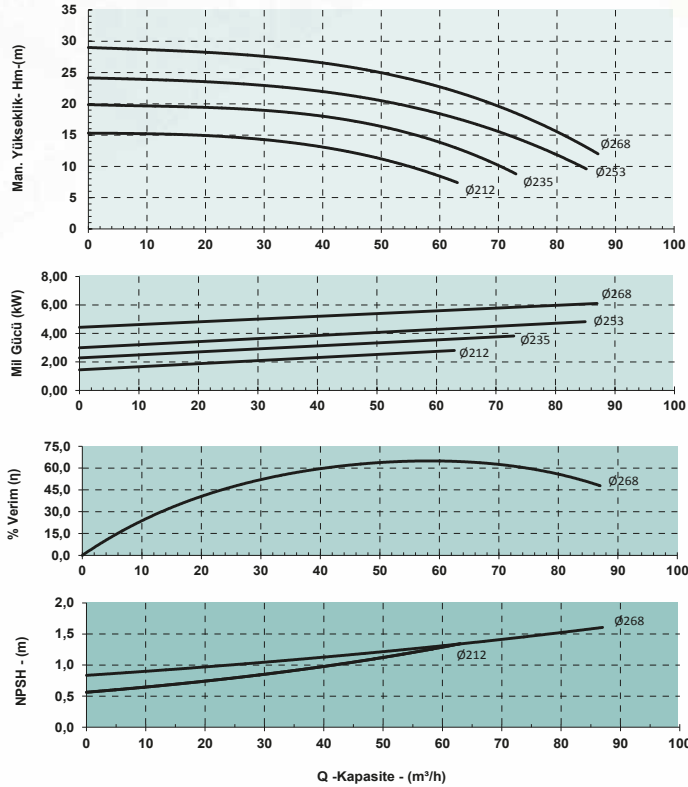
TNP 65-160 50 Hz - 1450 d/d



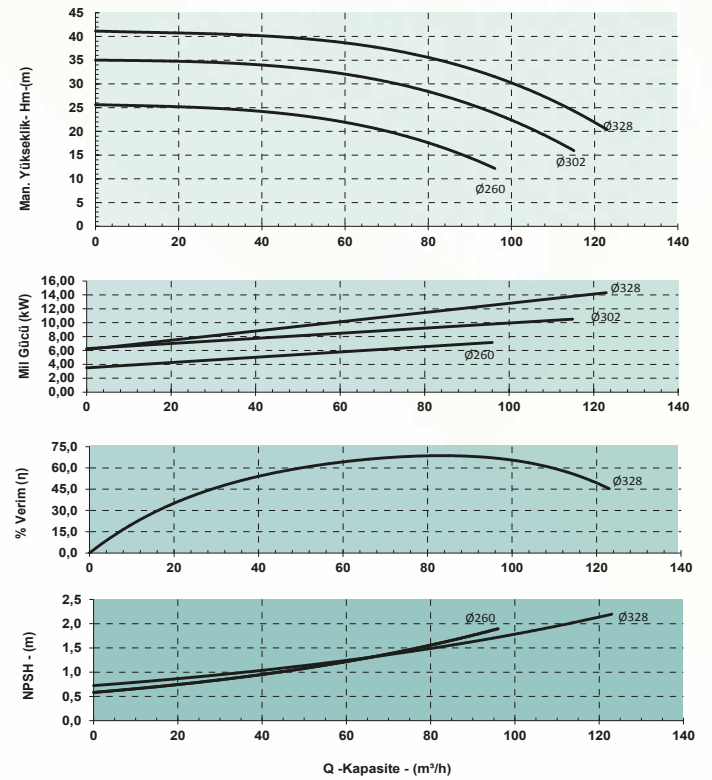
TNP 65-200 50 Hz - 1450 d/d



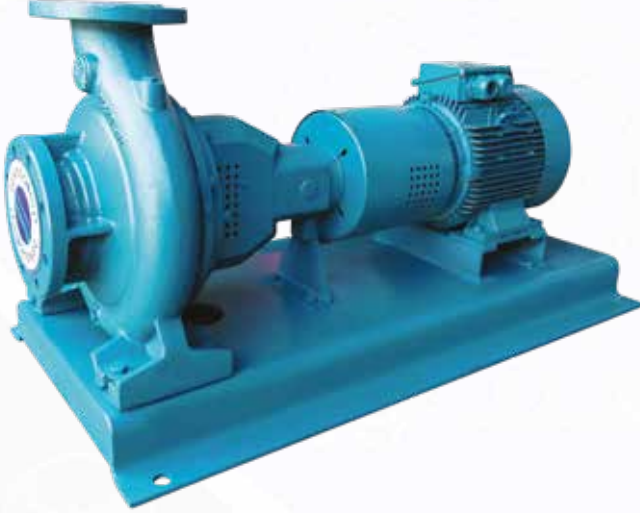
TNP 65-250 50 Hz - 1450 d/d



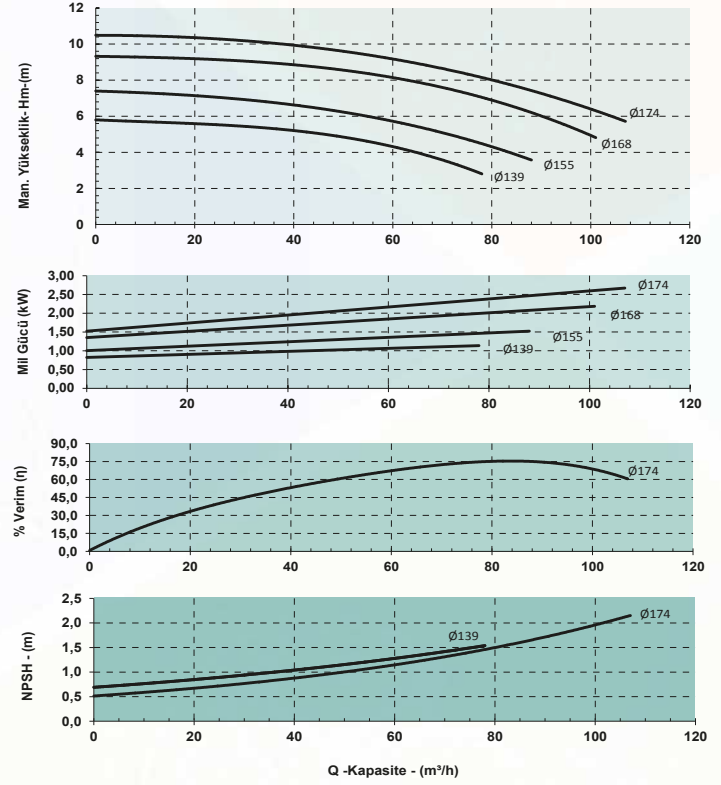
TNP 65-315 50 Hz - 1450 d/d



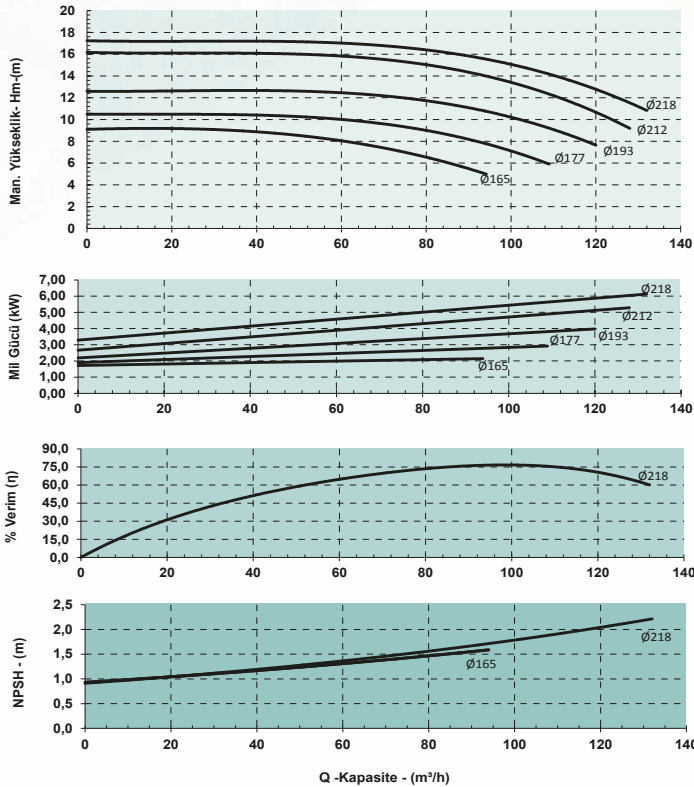
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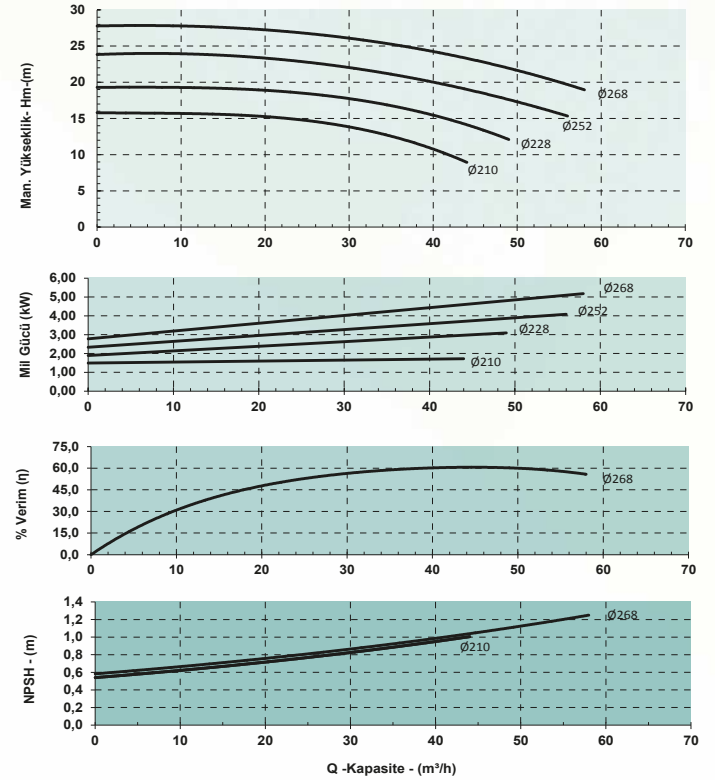
TNP 80-160 50 Hz - 1450 d/d



TNP 80-200 50 Hz - 1450 d/d

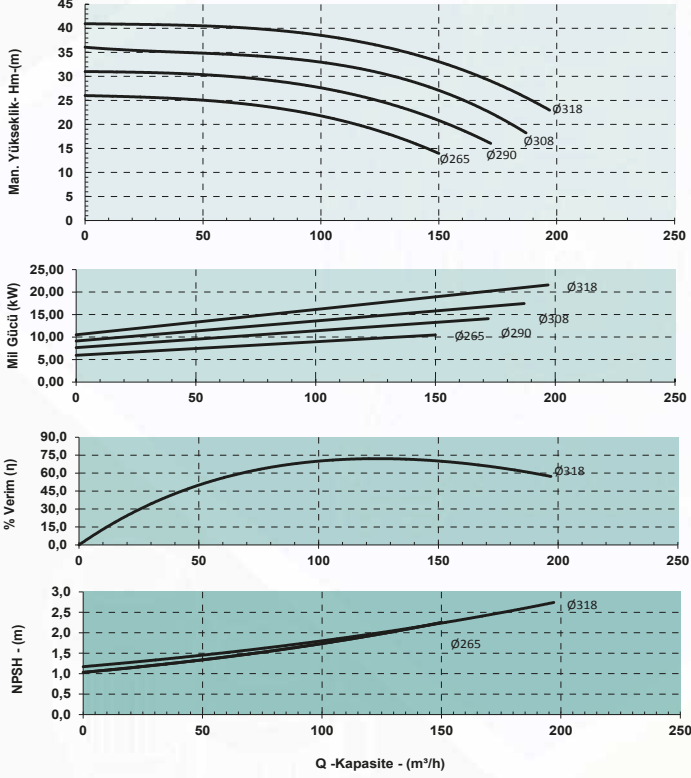


TNP 80-250 50 Hz - 1450 d/d

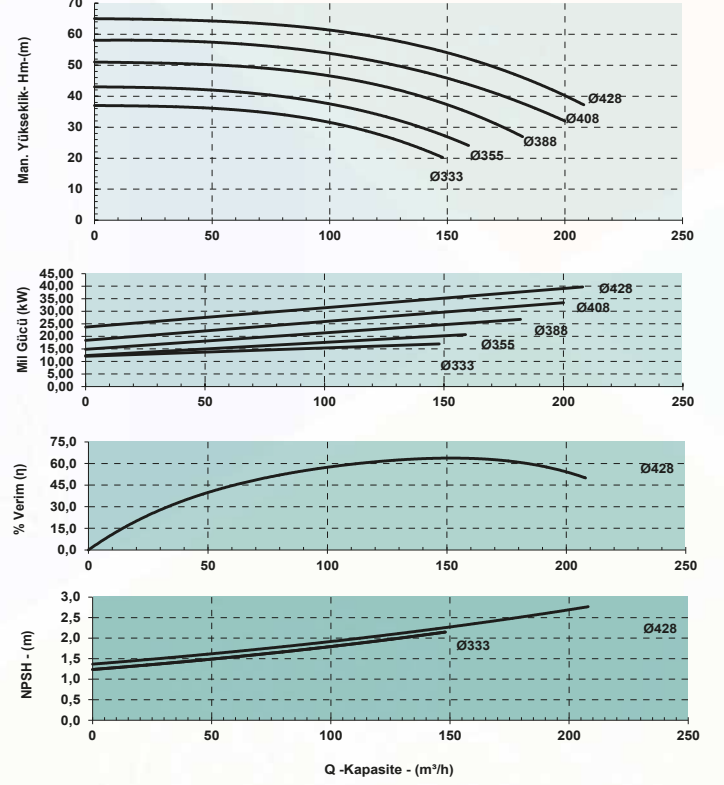


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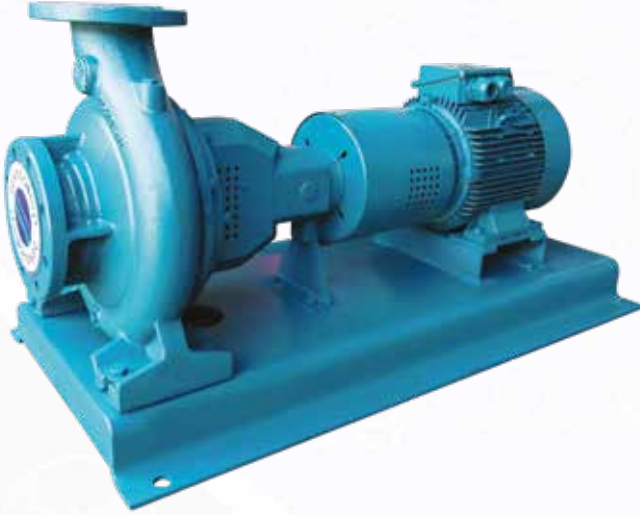
TNP 80-315 50 Hz - 1450 d/d



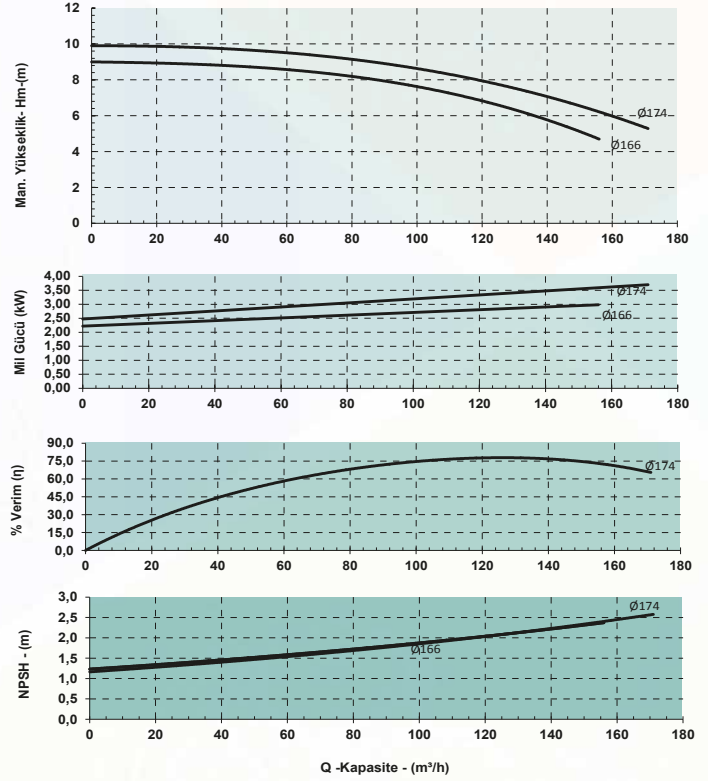
TNP 80-400 50 Hz - 1450 d/d



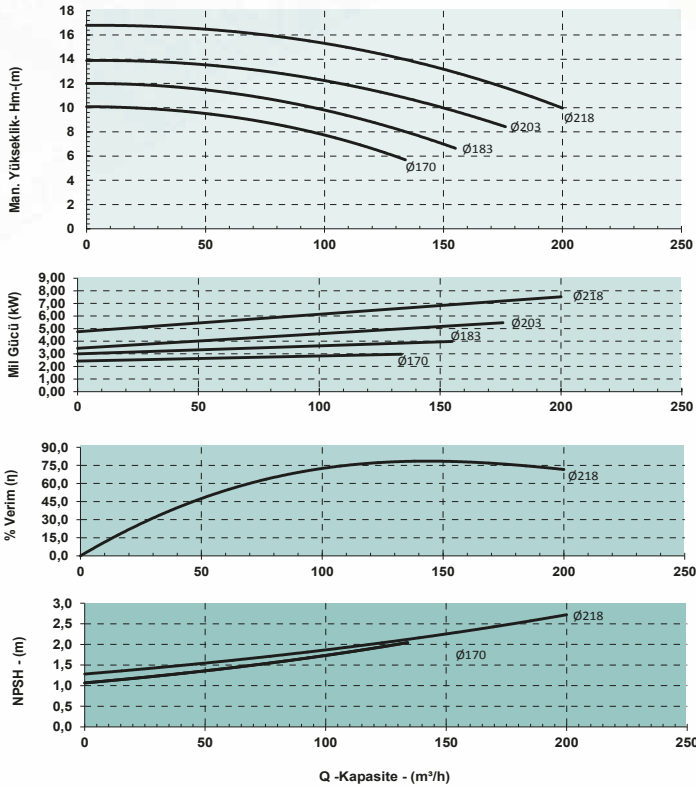
PERFORMANS EĞRİLERİ 1450 d/d



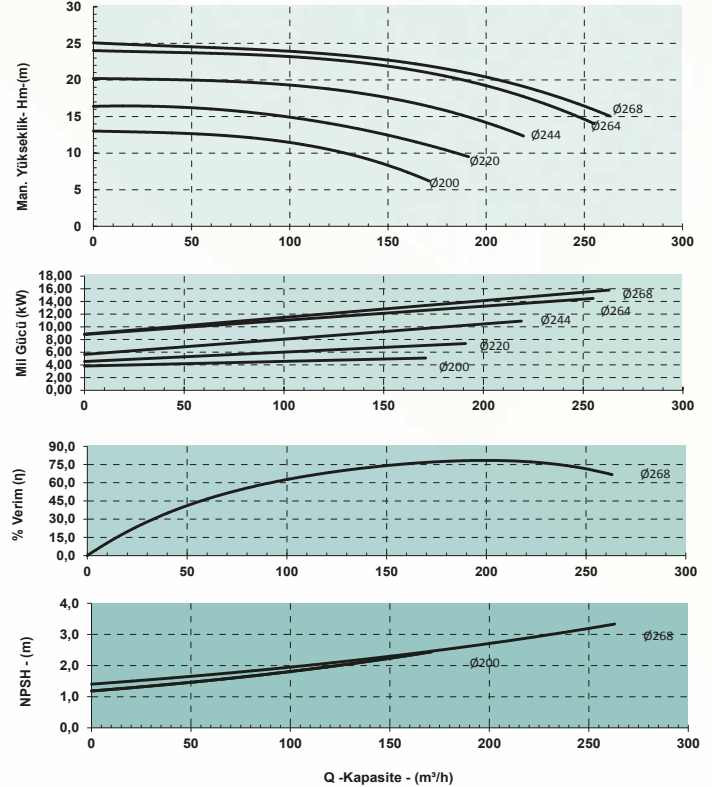
TNP 100-160 50 Hz - 1450 d/d



TNP 100-200 50 Hz - 1450 d/d

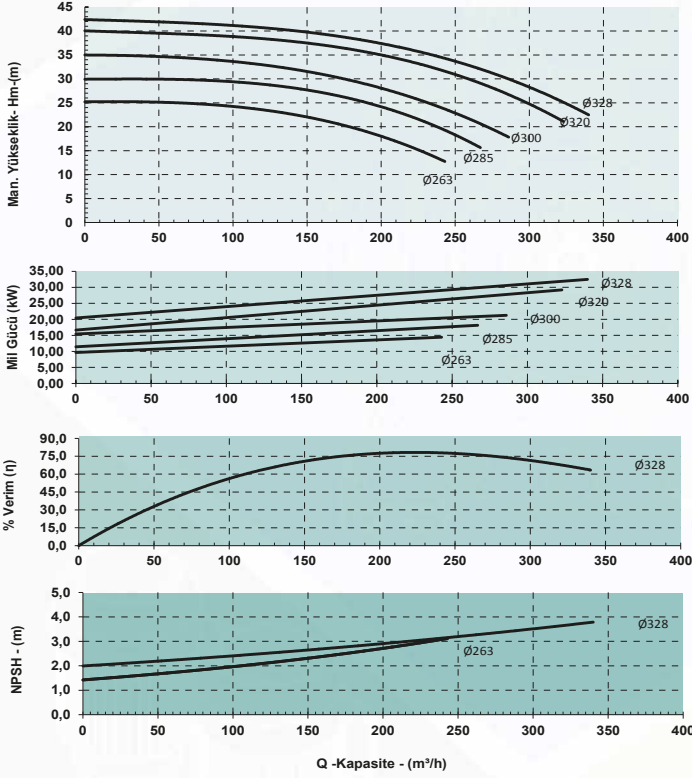


TNP 100-250 50 Hz - 1450 d/d

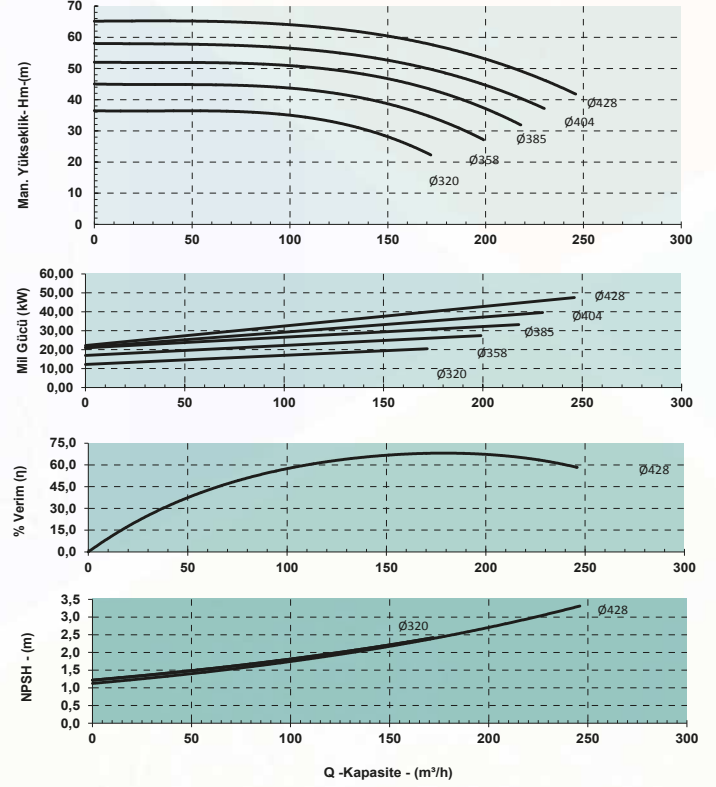


PERFORMANS EĞRİLERİ 1450 d/d

TNP 100-315 50 Hz - 1450 d/d

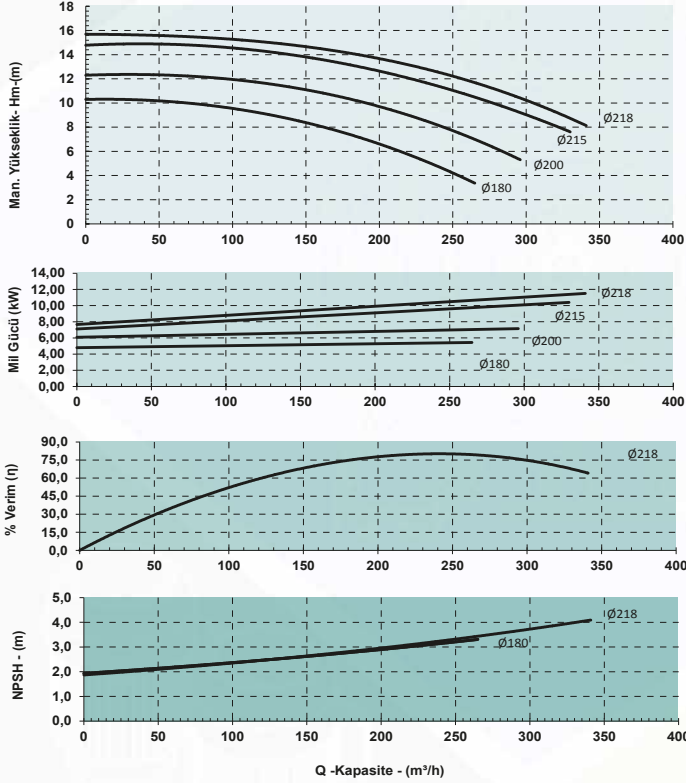


TNP 100-400 50 Hz - 1450 d/d

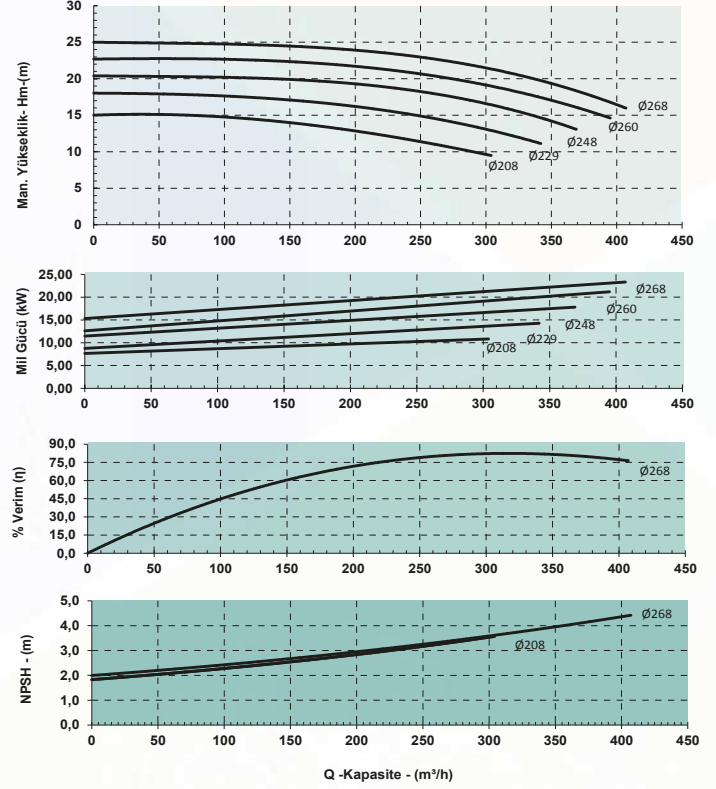


PERFORMANS EĞRİLERİ 1450 d/d

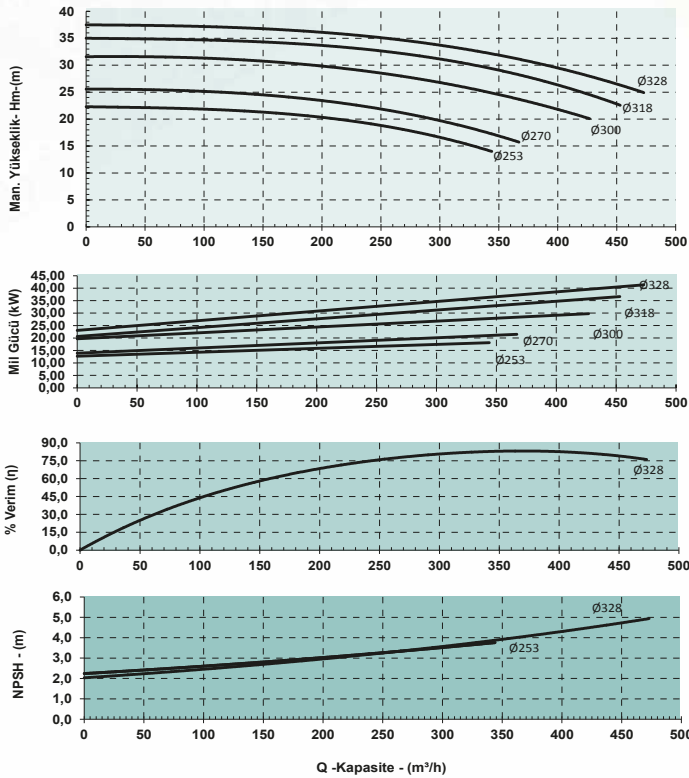
TNP 125-200 50 Hz - 1450 d/d



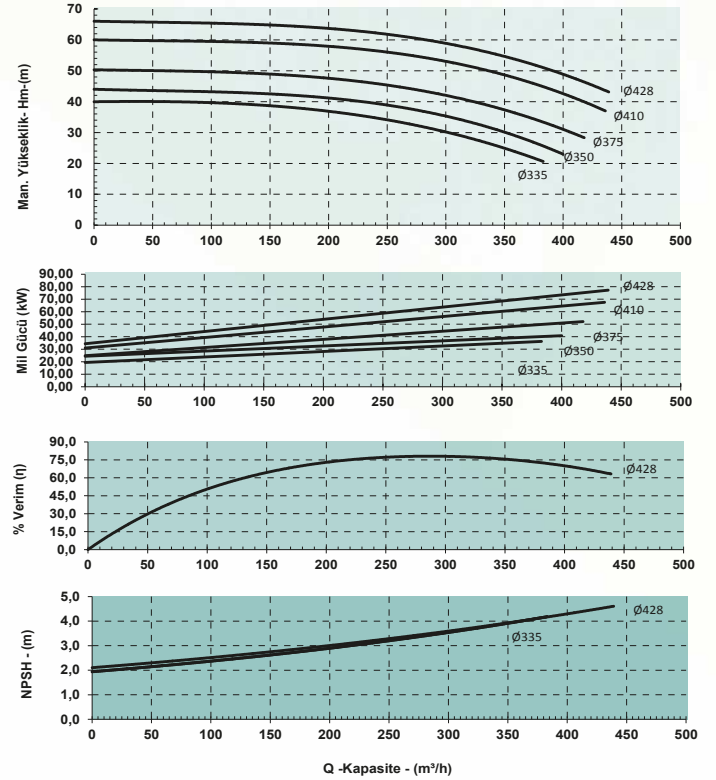
TNP 125-250 50 Hz - 1450 d/d



TNP 125-315 50 Hz - 1450 d/d

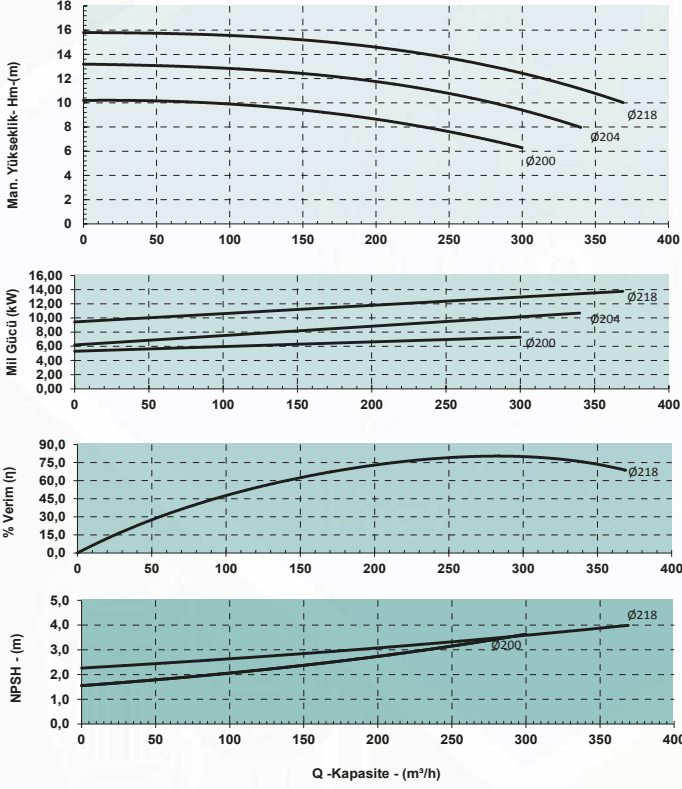


TNP 125-400 50 Hz - 1450 d/d

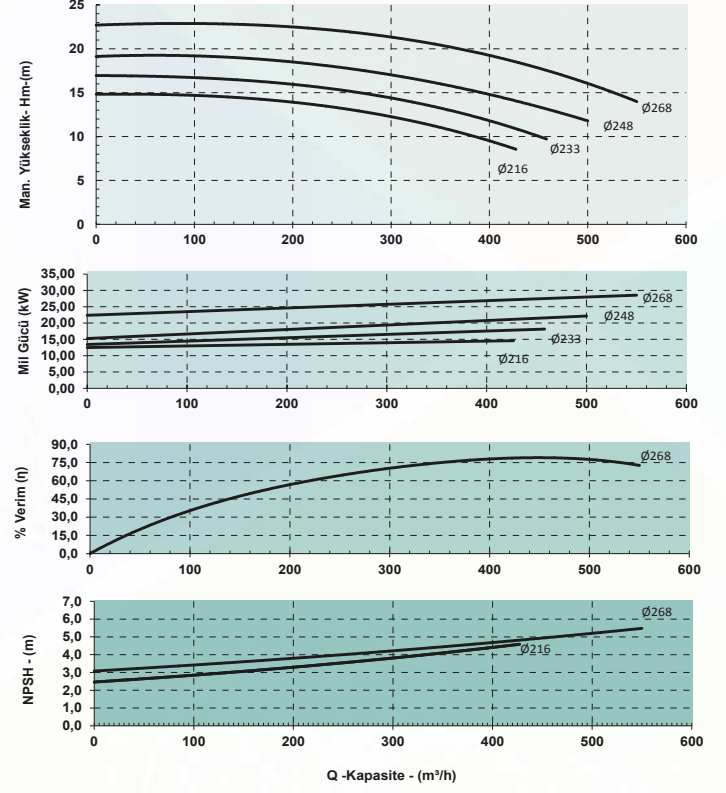


PERFORMANS EĞRİLERİ 1450 d/d

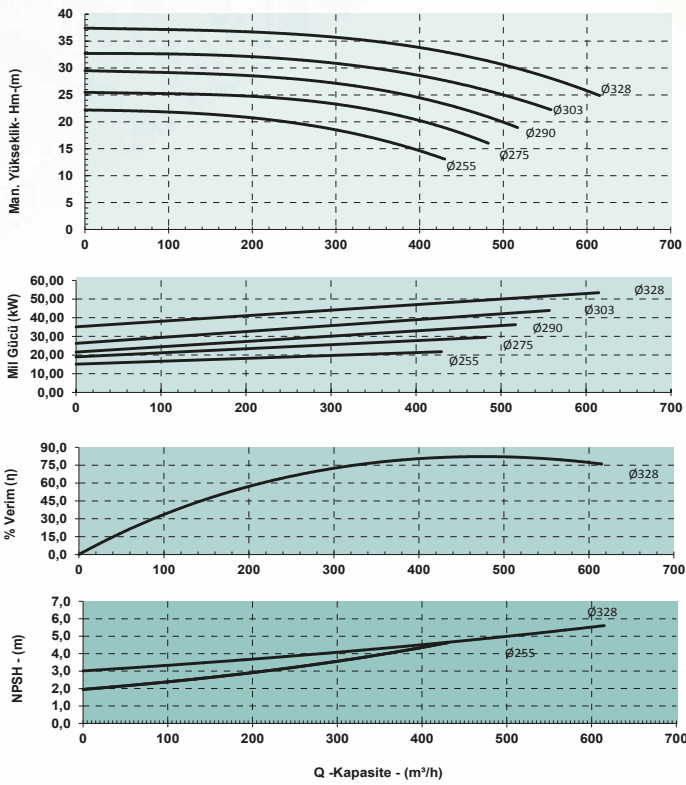
TNP 150-200 50 Hz - 1450 d/d



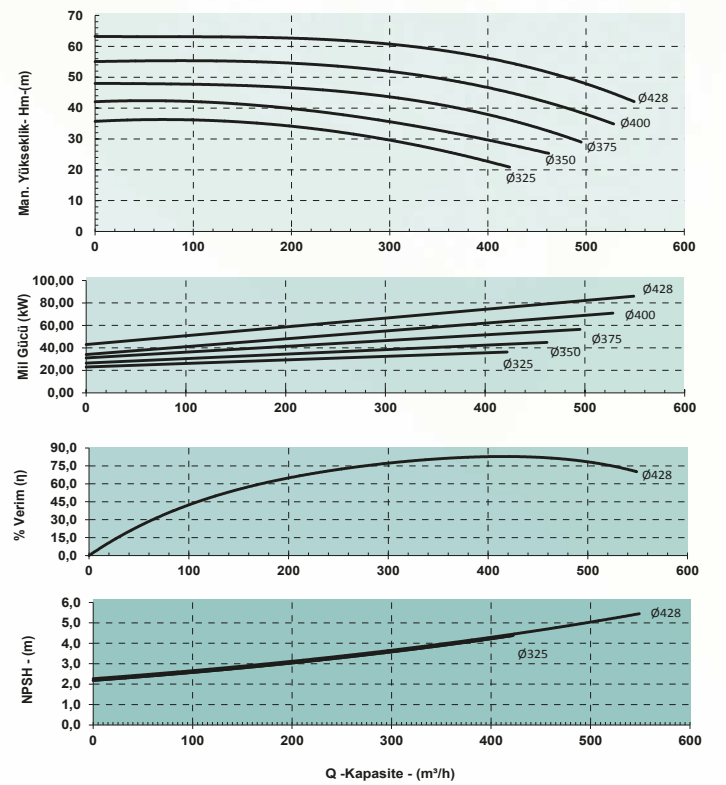
TNP 150-250 50 Hz - 1450 d/d



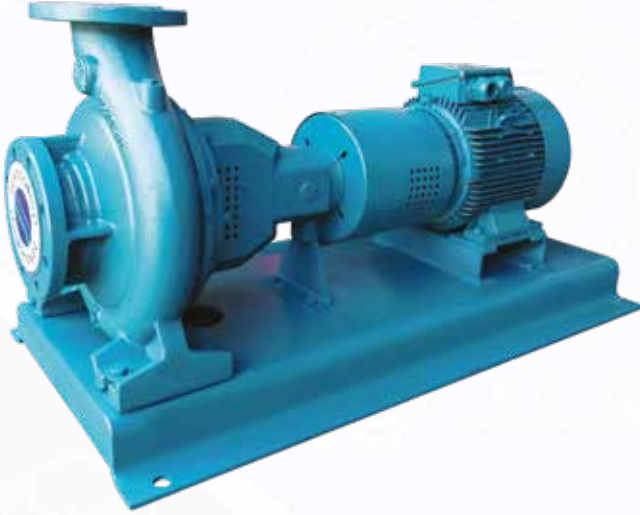
TNP 150-315 50 Hz - 1450 d/d



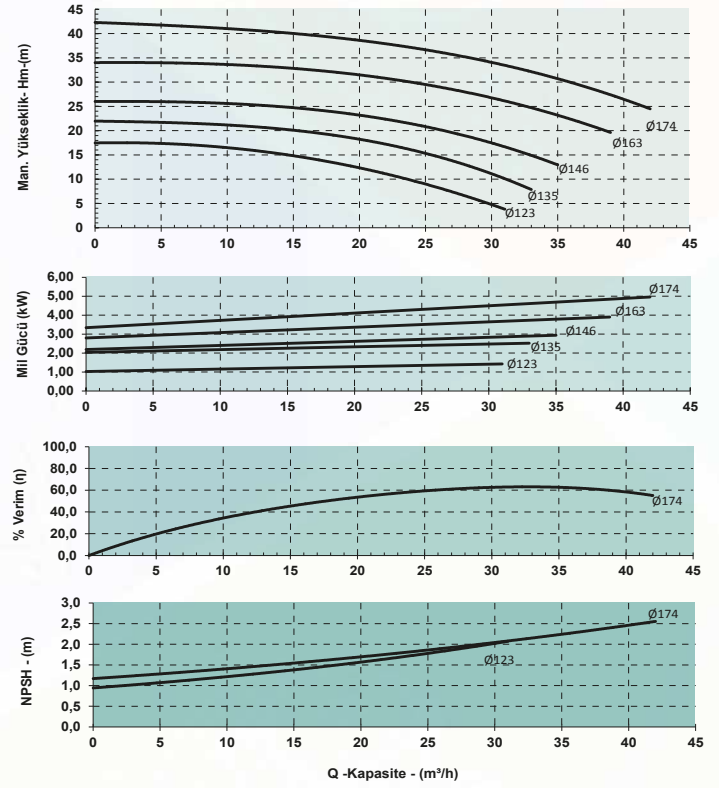
TNP 150-400 50 Hz - 1450 d/d



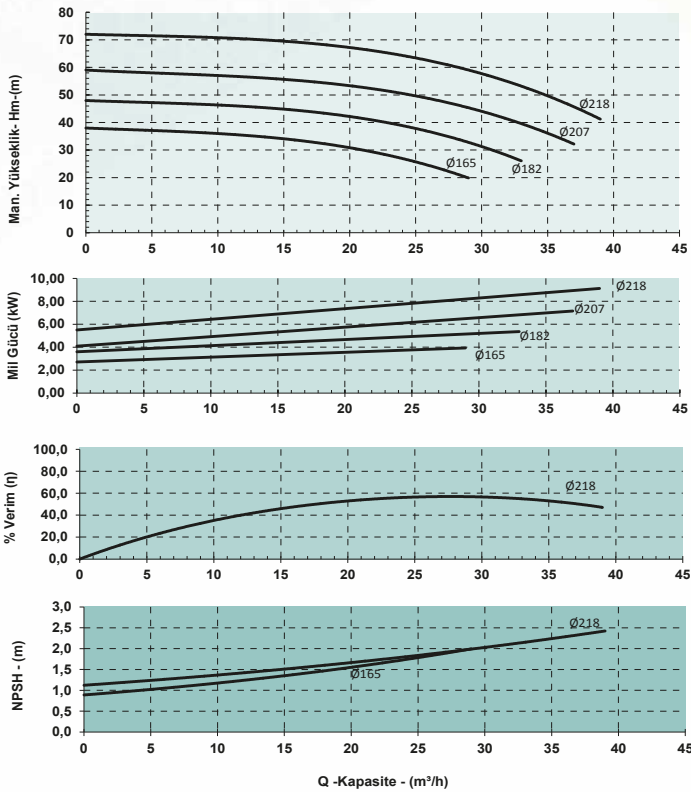
PERFORMANS EĞRİLERİ 2900 d/d



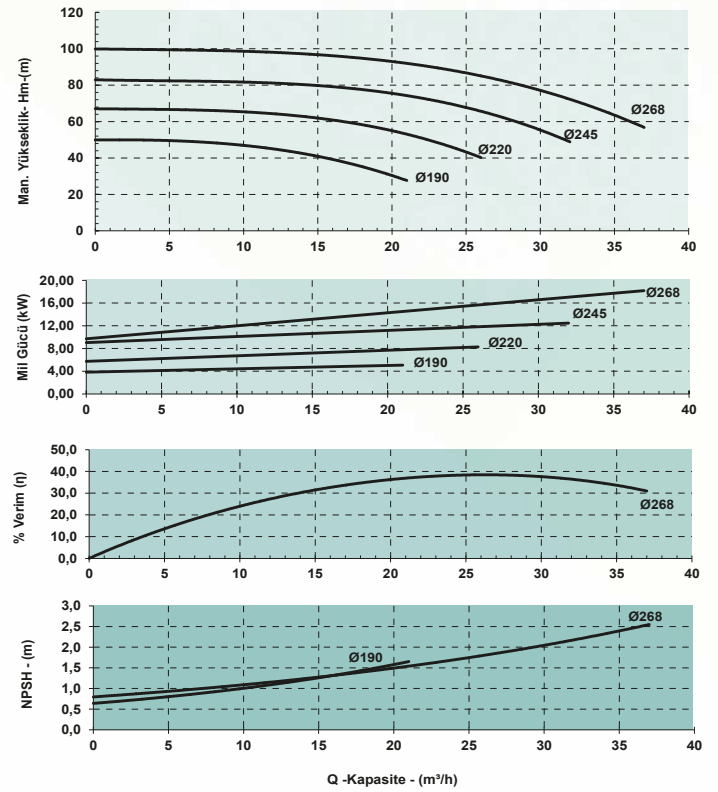
TNP 32-160 50 Hz - 2900 d/d



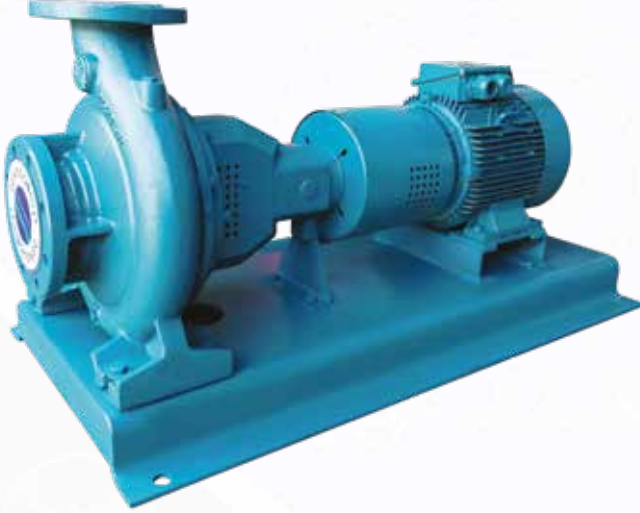
TNP 32-200 50 Hz - 2900 d/d



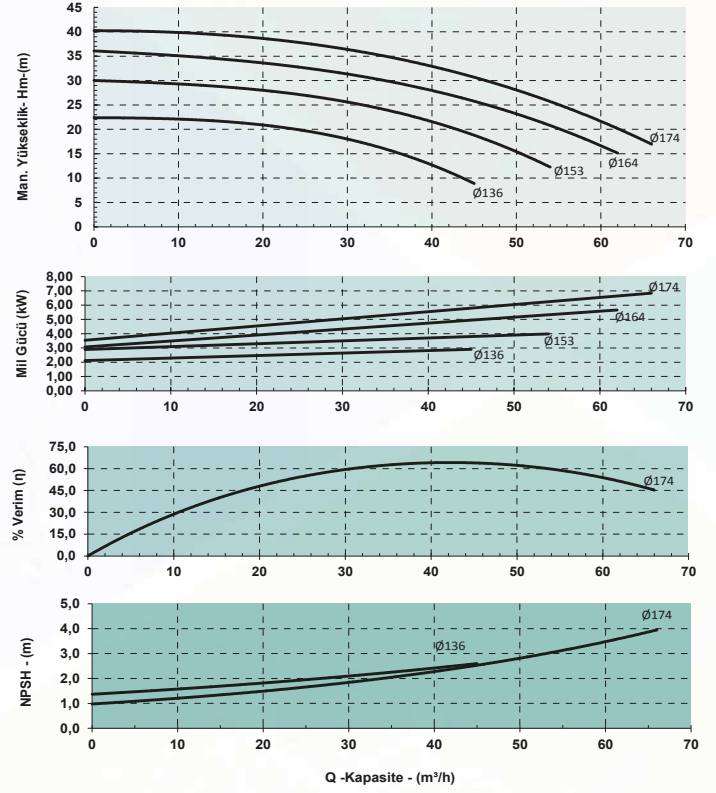
TNP 32-250 50 Hz - 2900 d/d



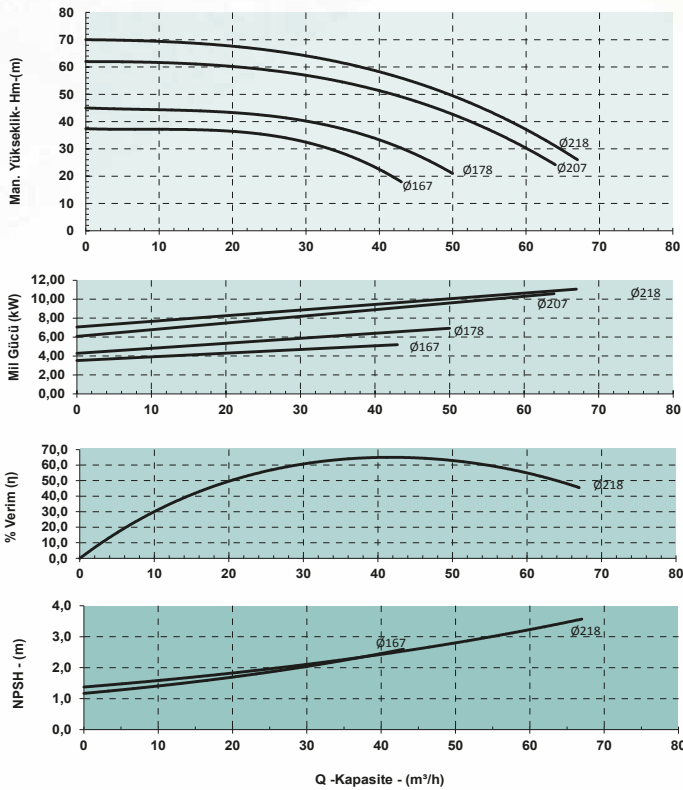
PERFORMANS EĞRİLERİ 2900 d/d



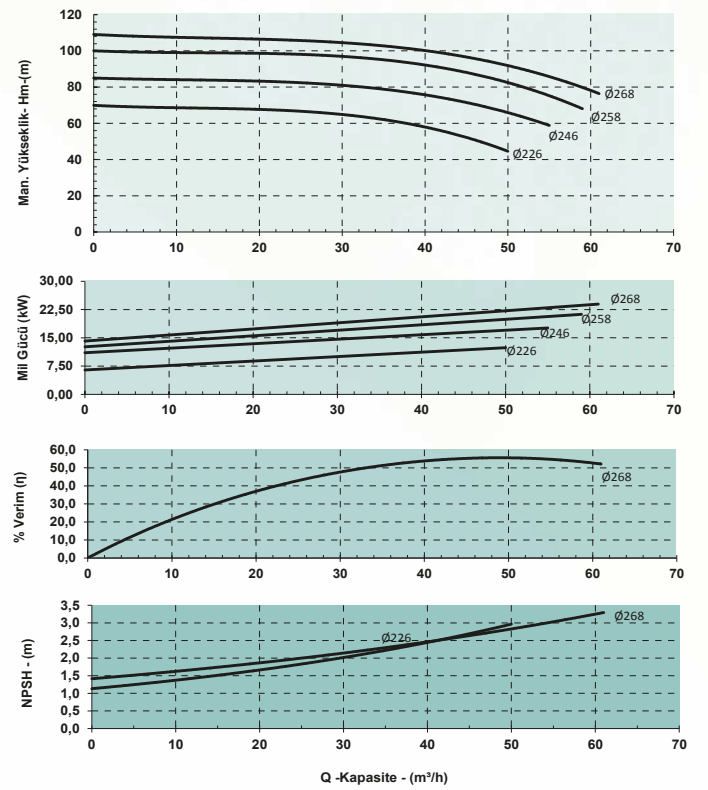
TNP 40-160 50 Hz - 2900 d/d



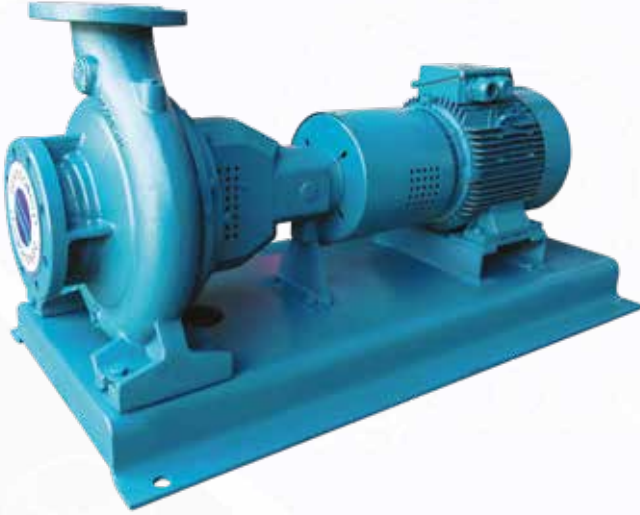
TNP 40-200 50 Hz - 2900 d/d



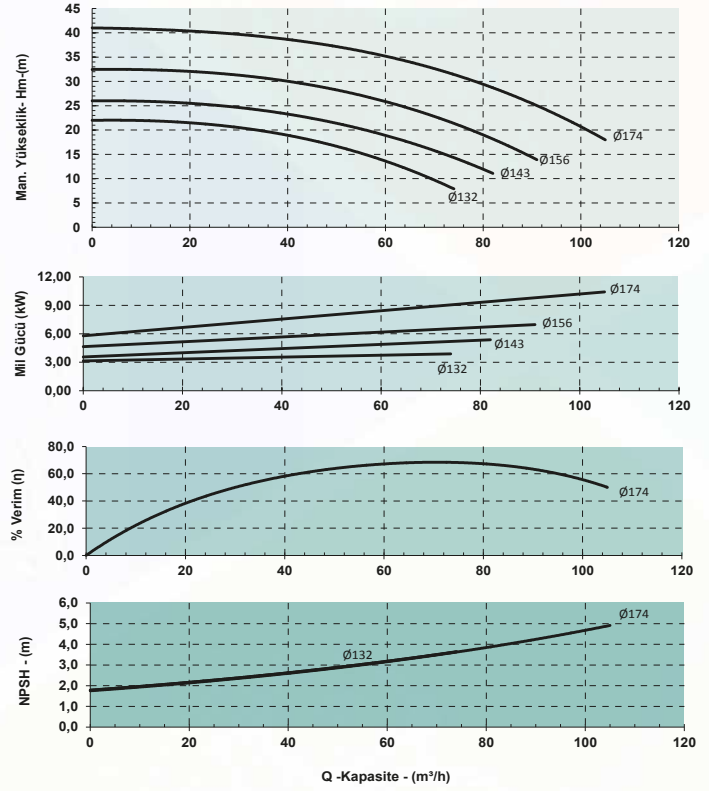
TNP 40-250 50 Hz - 2900 d/d



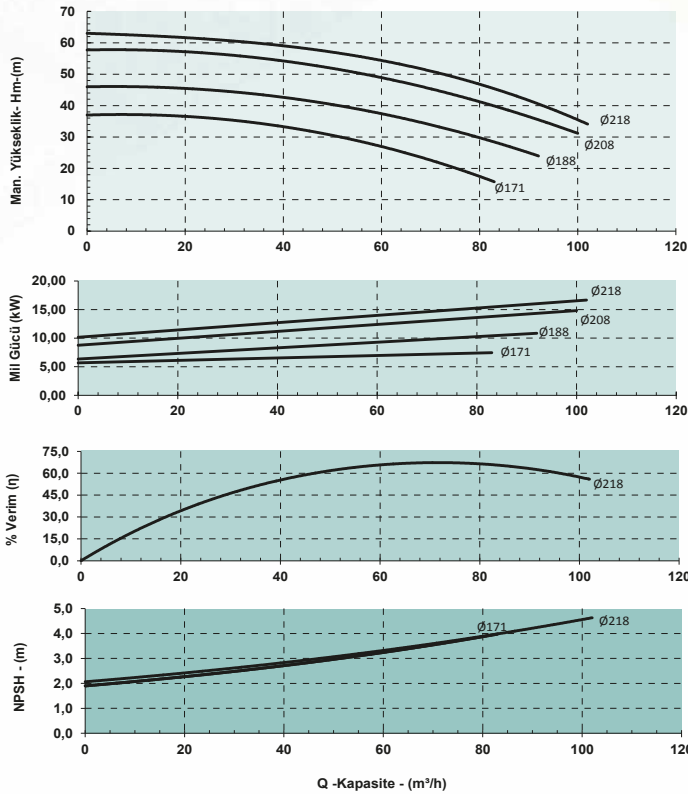
PERFORMANS EĞRİLERİ 2900 d/d



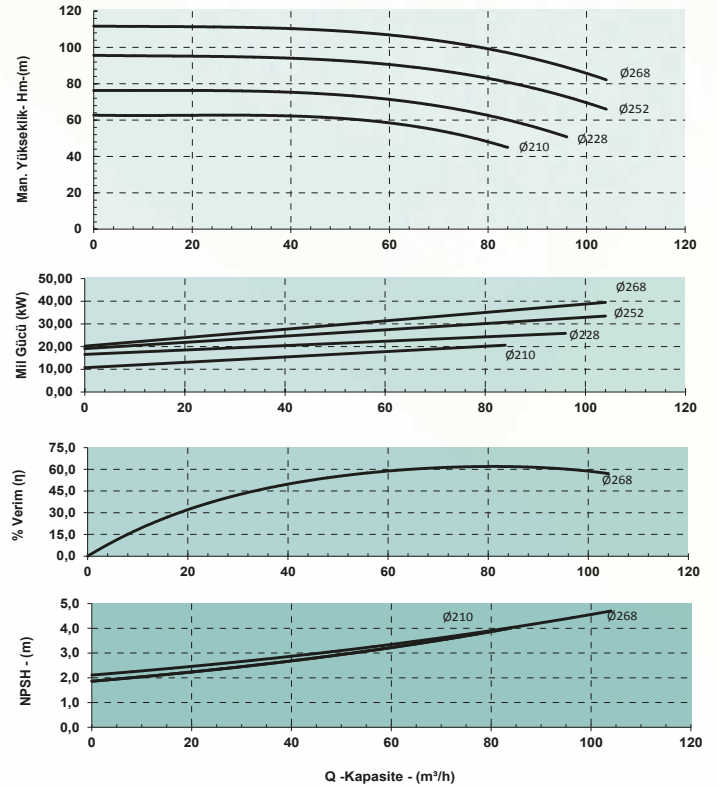
TNP 50-160 50 Hz - 2900 d/d



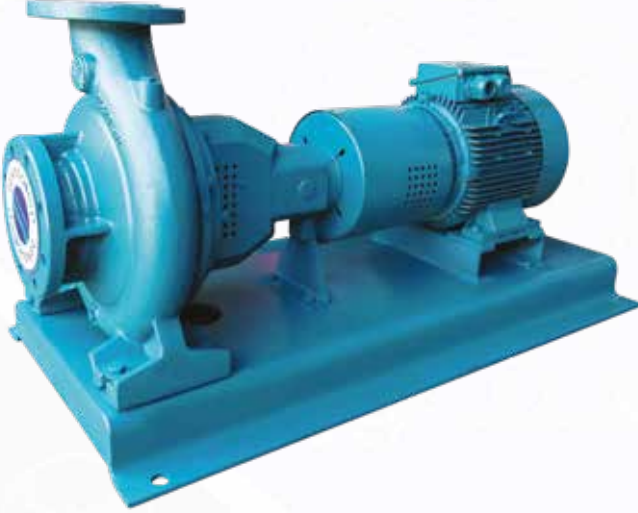
TNP 50-200 50 Hz - 2900 d/d



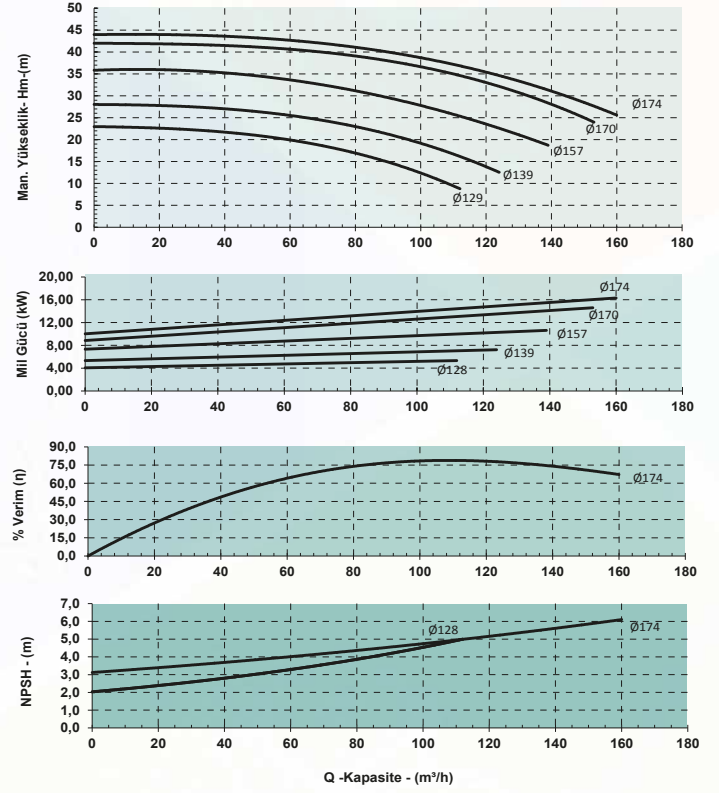
TNP 50-250 50 Hz - 2900 d/d



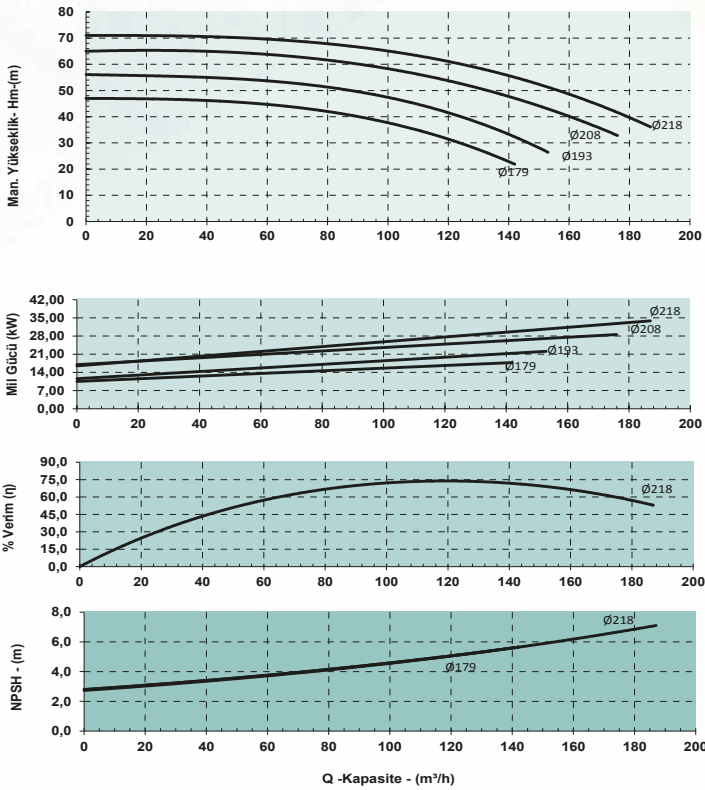
PERFORMANS EĞRİLERİ 2900 d/d



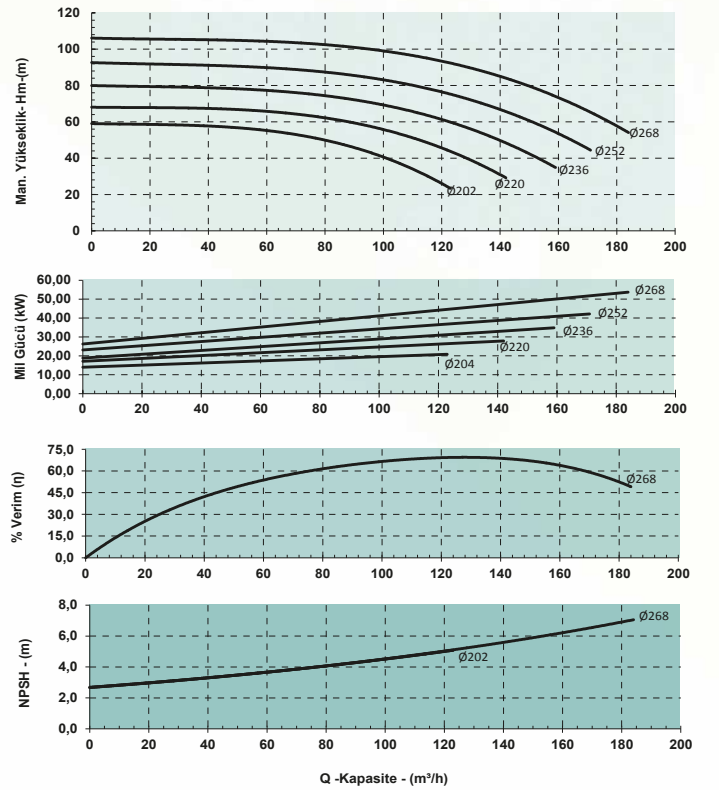
TNP 65-160 50 Hz - 2900 d/d



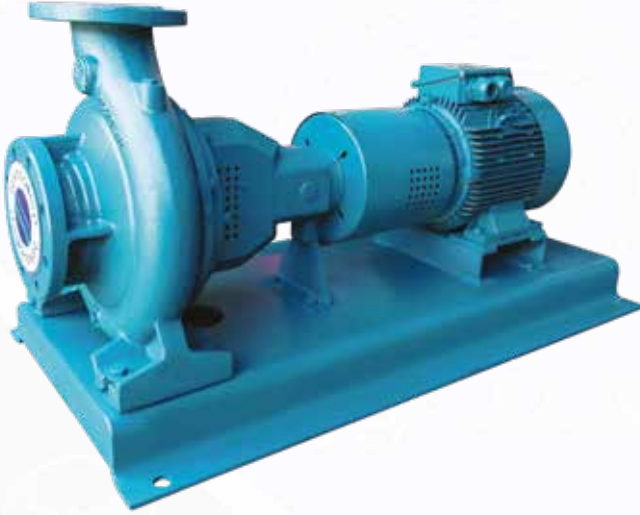
TNP 65-200 50 Hz - 2900 d/d



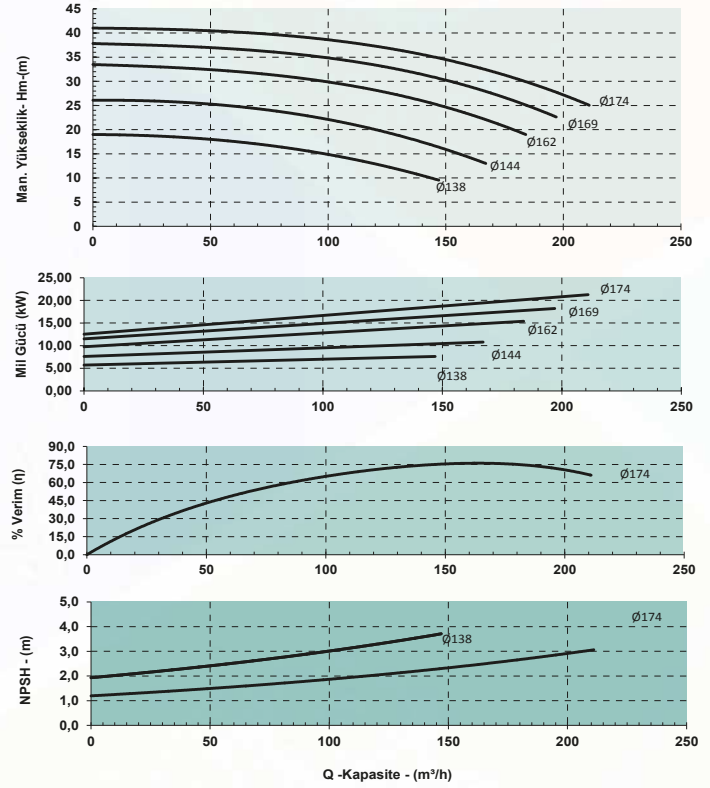
TNP 65-250 50 Hz - 2900 d/d



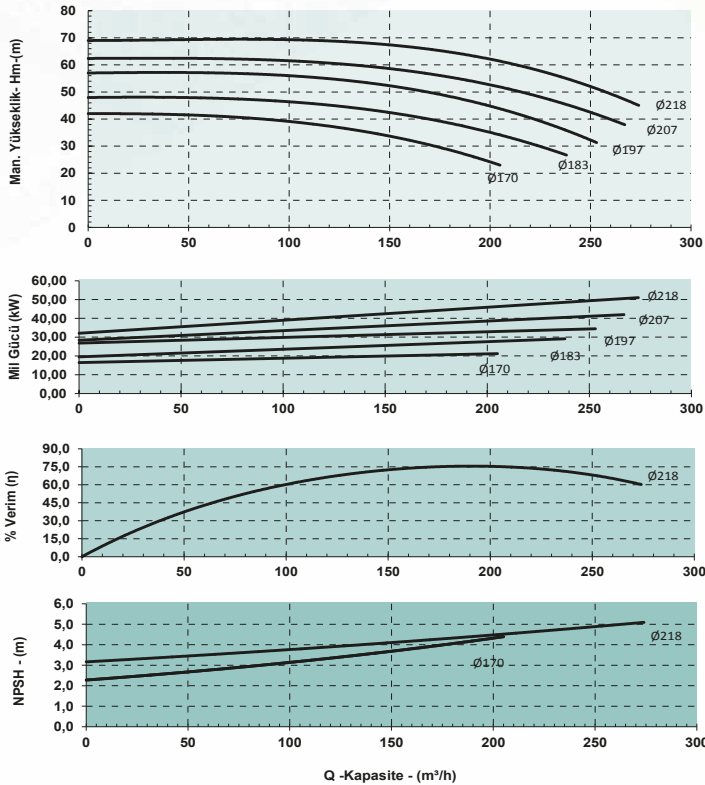
PERFORMANS EĞRİLERİ 2900 d/d



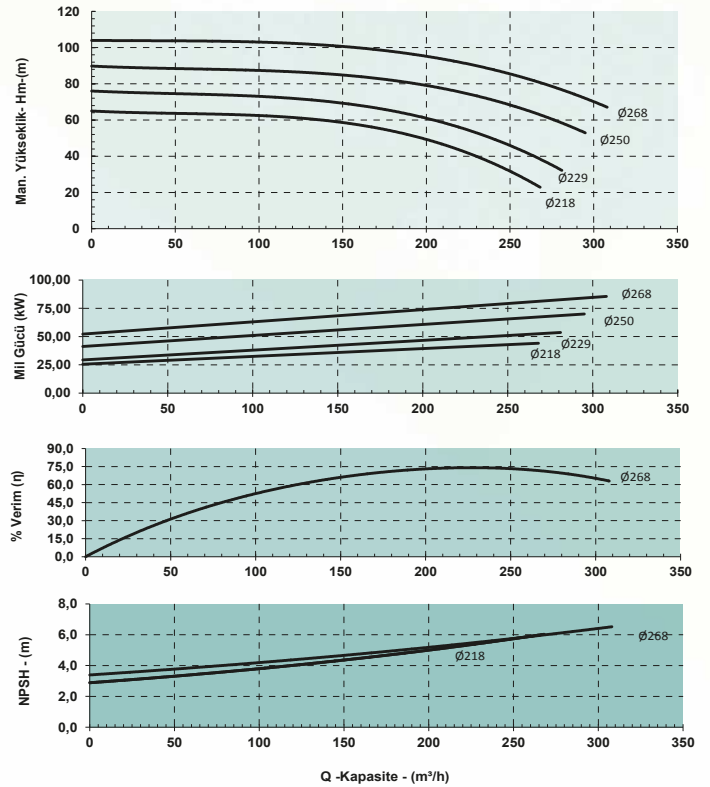
TNP 80-160 50 Hz - 2900 d/d



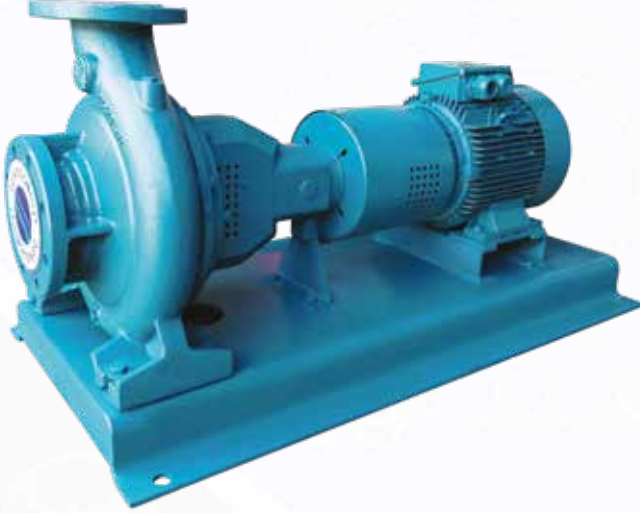
TNP 80-200 50 Hz - 2900 d/d



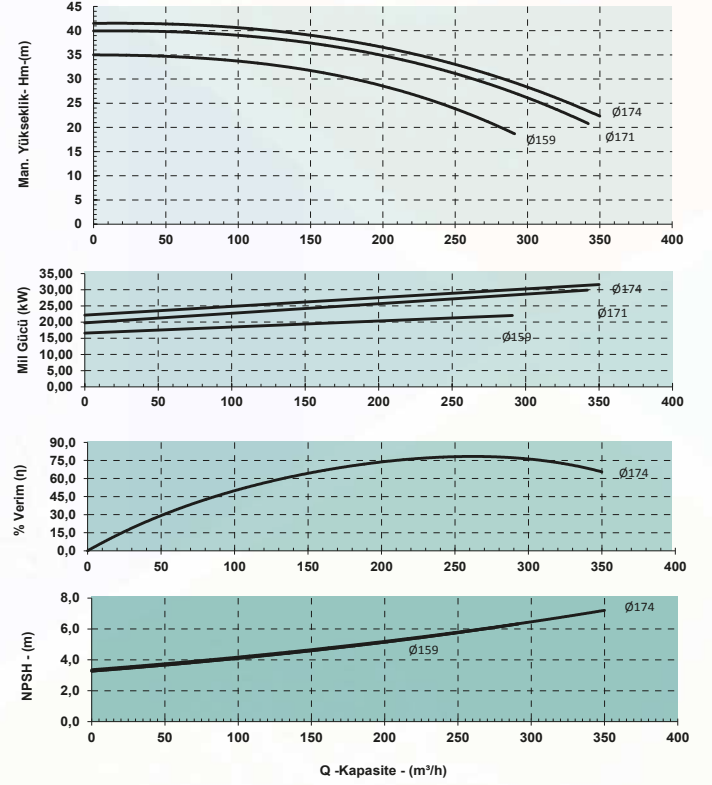
TNP 80-250 50 Hz - 2900 d/d



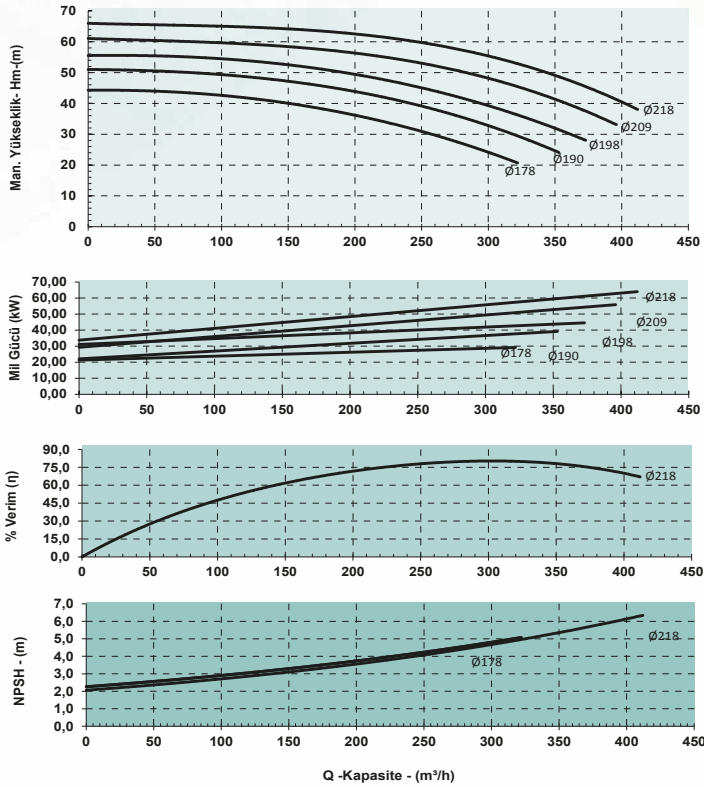
PERFORMANS EĞRİLERİ 2900 d/d



TNP 100-160 50 Hz - 2900 d/d



TNP 100-200 50 Hz - 2900 d/d



TNP 100-250 50 Hz - 2900 d/d

