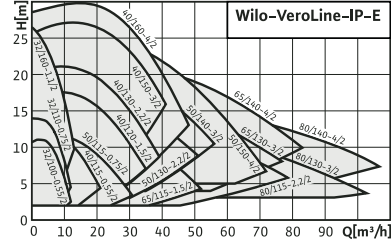


Isıtma, Soğutma, İklimlendirme, Endüstri

Enerji Tasarruflu Pompalar (Kuru Rotorlu, Tekli)

Wilo-VeroLine-IP-E



Dizayn

Elektronik kontrollü, flanş bağlantılı, kuru rotorlu (salmastralı), yekpare milli inline tip pompa

Uygulama

Isıtma , soğutma ve iklimlendirme tesisatları

Pompa Kodlaması

Örnek : **IP-E 40/160-4/2 R1**

IP-E Elektronik kontrollü inline pompa

40/ Nominal bağlantı çapı DN

160 Nominal çark çapı

4 Nominal motor gücü P_2 , kW

2 Kutup sayısı

R1 Basınç sensörsüz versiyon

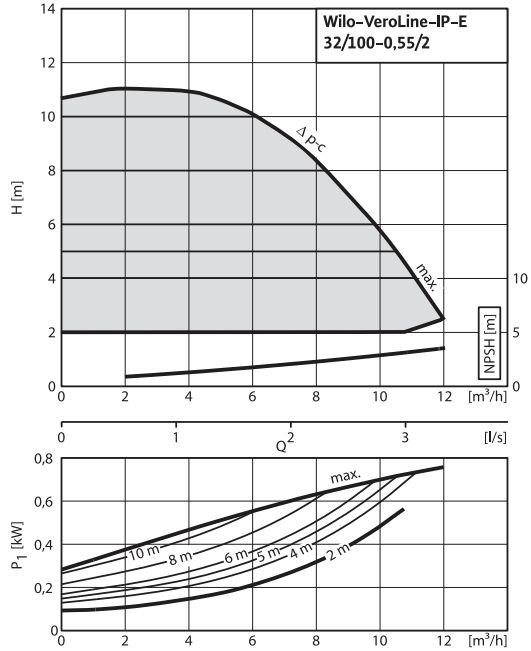
Ürün Özellikleri /Faydalar

- Geliştirilmiş işlevsellik
- Entegre elektronik güç kontrolü ile enerji tasarrufu
- Pompada $\Delta p-c$ ve $\Delta p-v$ kontrol modları
- Debi indikatörü
- Devre kesicili dahili tam motor koruması (PTC termistör sensörlü)
- "Kırmızı buton" ile kolay kullanım, ekran , kızılötesi arayüz
- BUS iletişimi için, sonradan takılabilir IF-Modüller (LON, PLR)
- Entegre İkiz Pompa İşletimi
- Kataforez kaplama ile yüksek korozyon dayanımı

Wilo-VeroLine-IP-E Karakteristik Eğriler

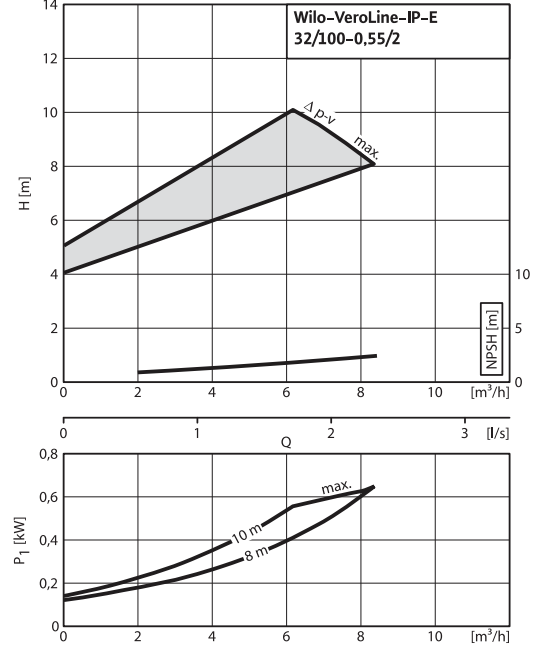
Wilo-VeroLine-IP-E 32/100-0,55/2

Δp -c (sabit)



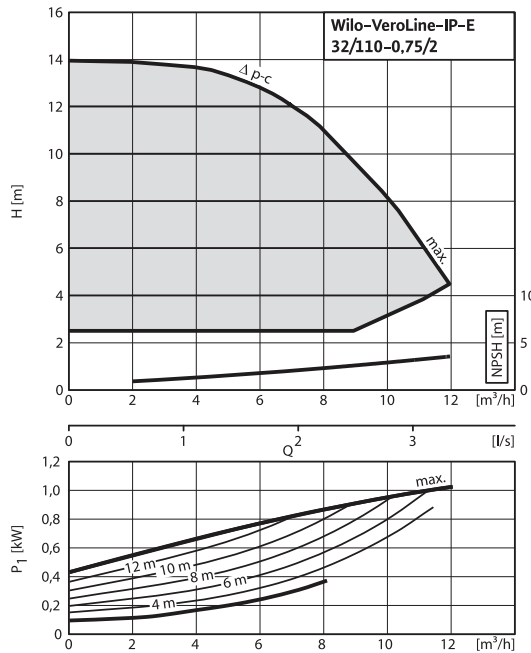
Wilo-VeroLine-IP-E 32/100-0,55/2

Δp -v (değişken)



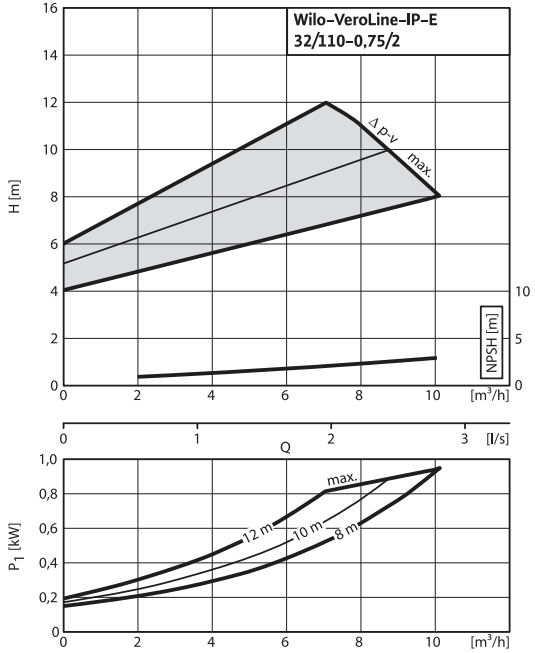
Wilo-VeroLine-IP-E 32/110-0,75/2

Δp -c (sabit)



Wilo-VeroLine-IP-E 32/110-0,75/2

Δp -v (değişken)



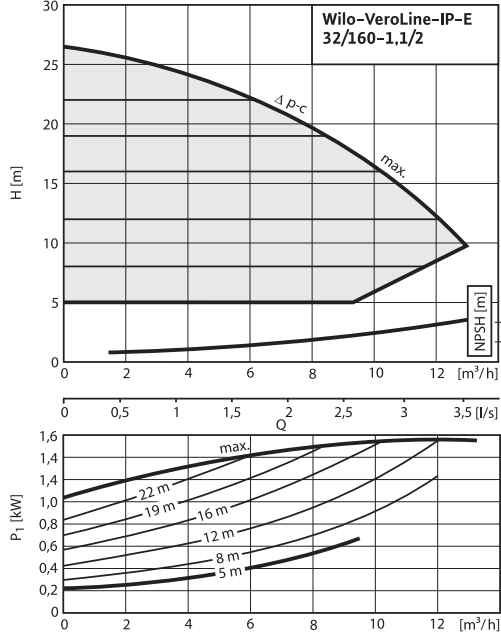
Isıtma, Soğutma, İklimlendirme, Endüstri

Enerji Tasarruflu Pompalar (Kuru Rotorlu, Tekli)

Wilo-VeroLine-IP-E Karakteristik Eğriler

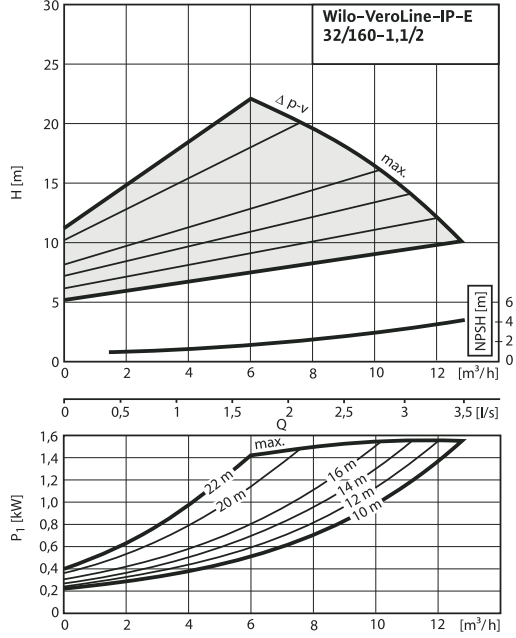
Wilo-VeroLine-IP-E 32/160-1,1/2

$\Delta p-c$ (sabit)



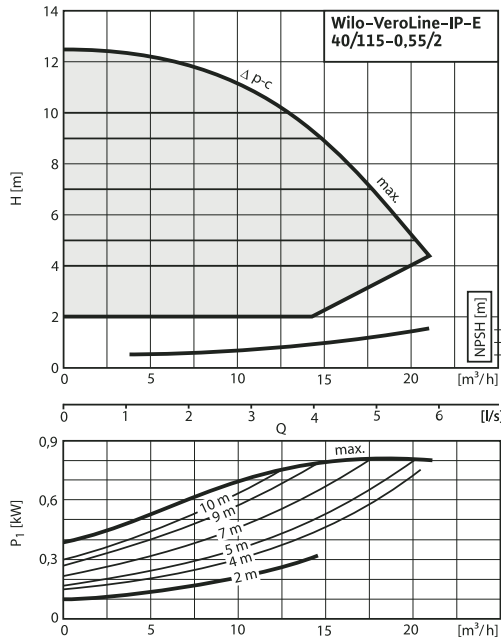
Wilo-VeroLine-IP-E 32/160-1,1/2

$\Delta p-v$ (değişken)



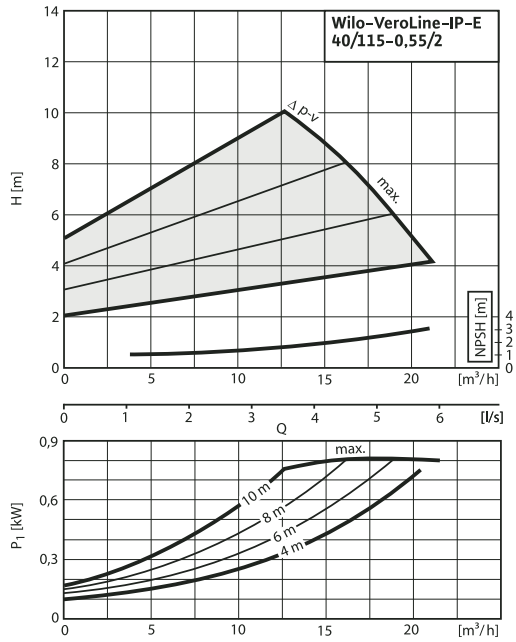
Wilo-VeroLine-IP-E 40/115-0,55/2

$\Delta p-c$ (sabit)



Wilo-VeroLine-IP-E 40/115-0,55/2

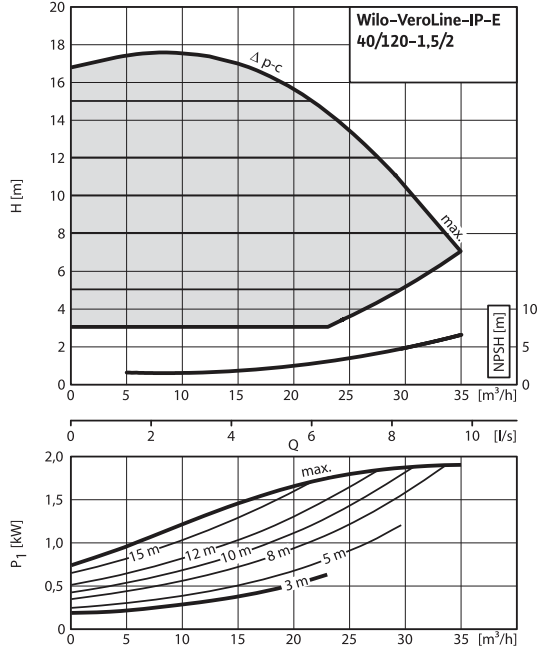
$\Delta p-v$ (değişken)



Wilo-VeroLine-IP-E Karakteristik Eğriler

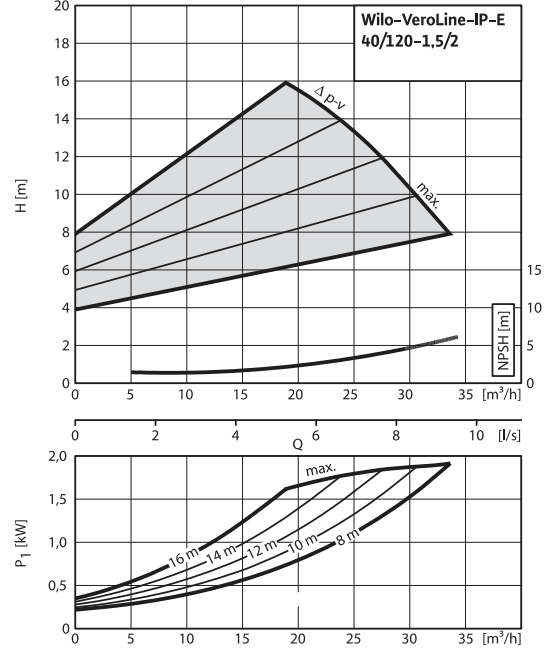
Wilo-VeroLine-IP-E 40/120-1,5/2

Δp -c (sabit)



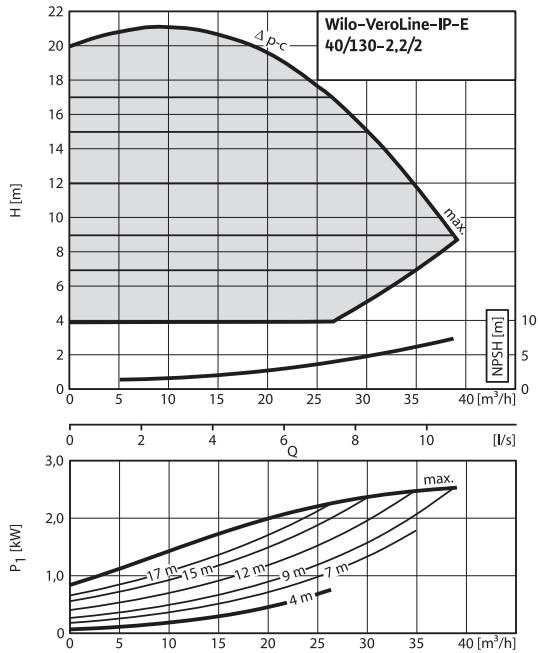
Wilo-VeroLine-IP-E 40/120-1,5/2

Δp -v (değişken)



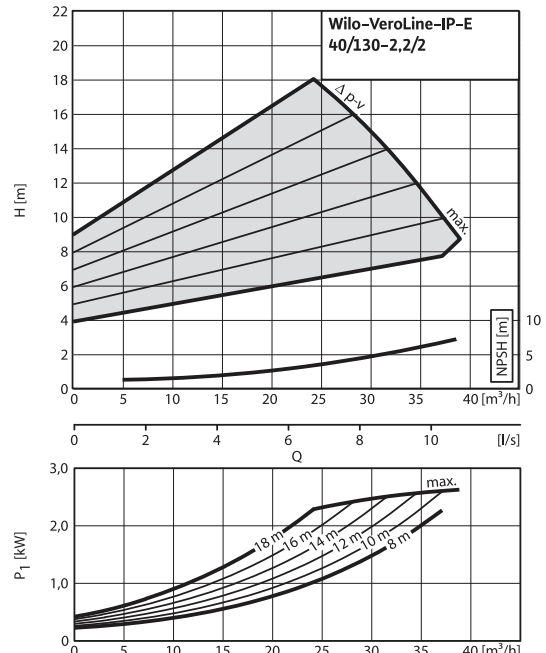
Wilo-VeroLine-IP-E 40/130-2,2/2

Δp -c (sabit)



Wilo-VeroLine-IP-E 40/130-2,2/2

Δp -v (değişken)



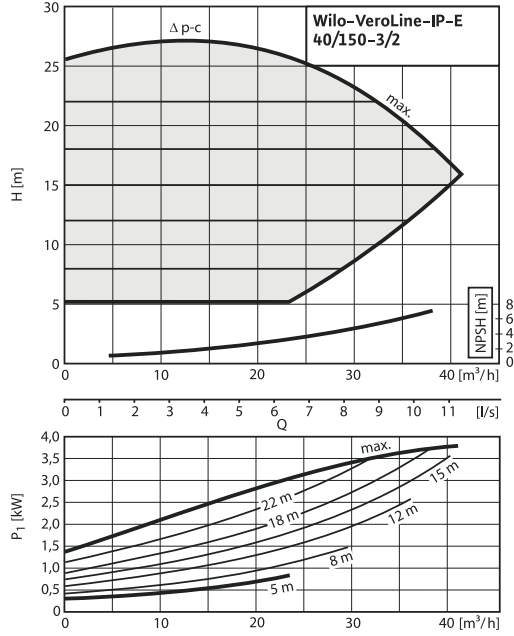
Isıtma, Soğutma, İklimlendirme, Endüstri

Enerji Tasarruflu Pompalar (Kuru Rotorlu, Tekli)

Wilo-VeroLine-IP-E Karakteristik Eğriler

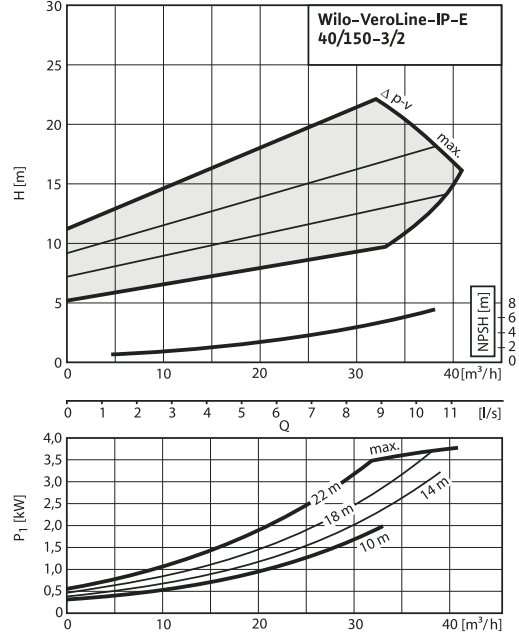
Wilo-VeroLine-IP-E 40/150-3/2

$\Delta p-c$ (sabit)



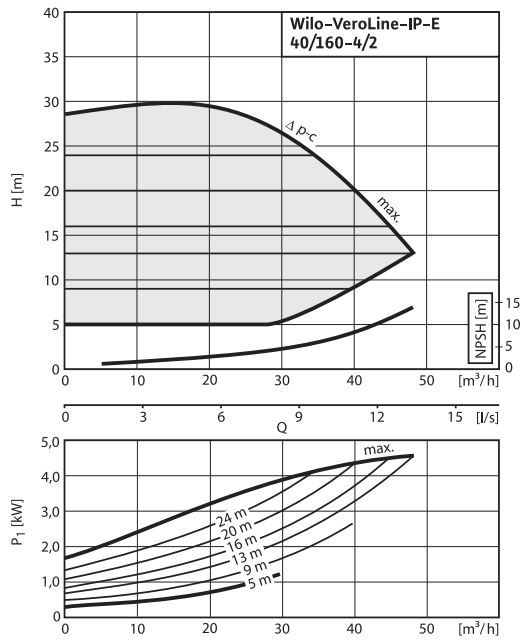
Wilo-VeroLine-IP-E 40/150-3/2

$\Delta p-v$ (değişken)



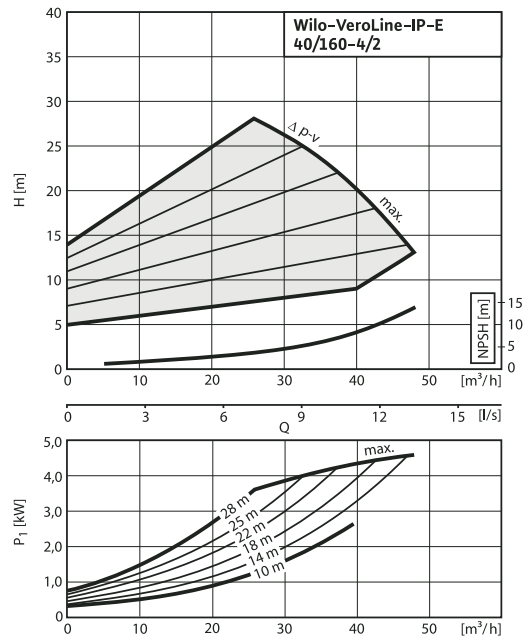
Wilo-VeroLine-IP-E 40/160-4/2

$\Delta p-c$ (sabit)



Wilo-VeroLine-IP-E 40/160-4/2

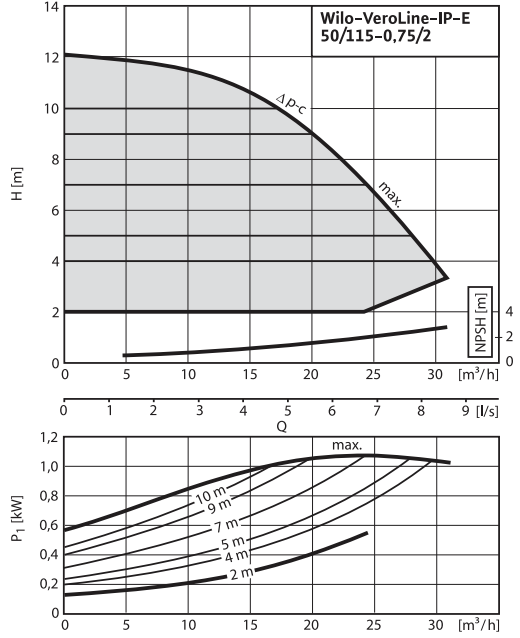
$\Delta p-v$ (değişken)



Wilo-VeroLine-IP-E Karakteristik Eğriler

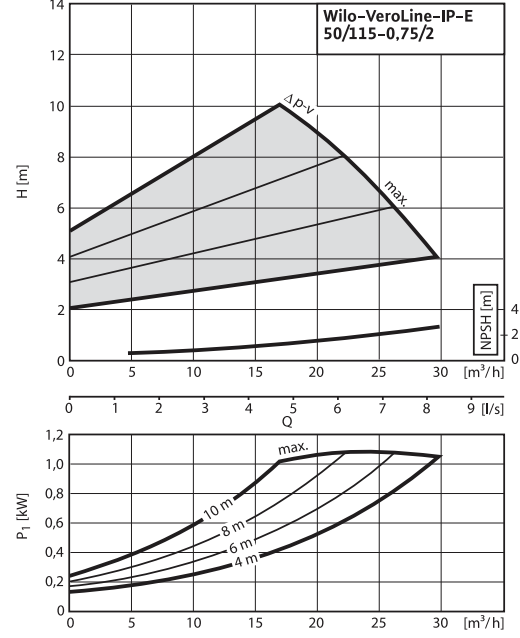
Wilo-VeroLine-IP-E 50/115-0,75/2

Δp -c (sabit)



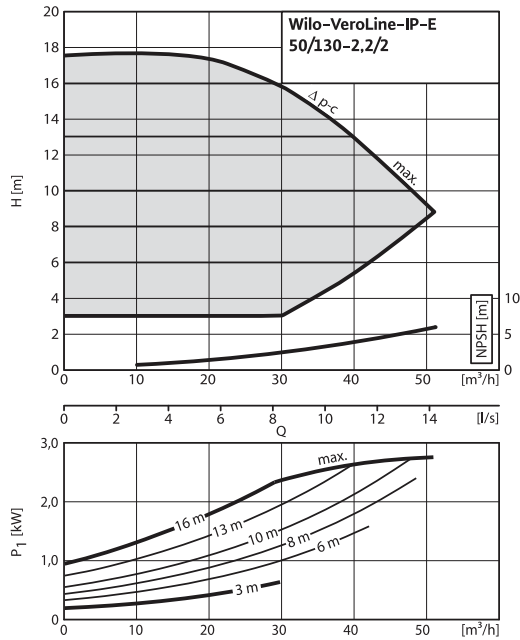
Wilo-VeroLine-IP-E 50/115-0,75/2

Δp -v (değişken)



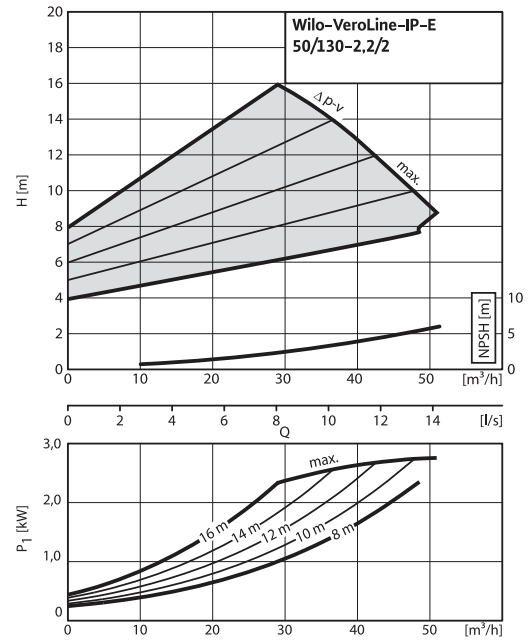
Wilo-VeroLine-IP-E 50/130-2,2/2

Δp -c (sabit)



Wilo-VeroLine-IP-E 50/130-2,2/2

Δp -v (değişken)



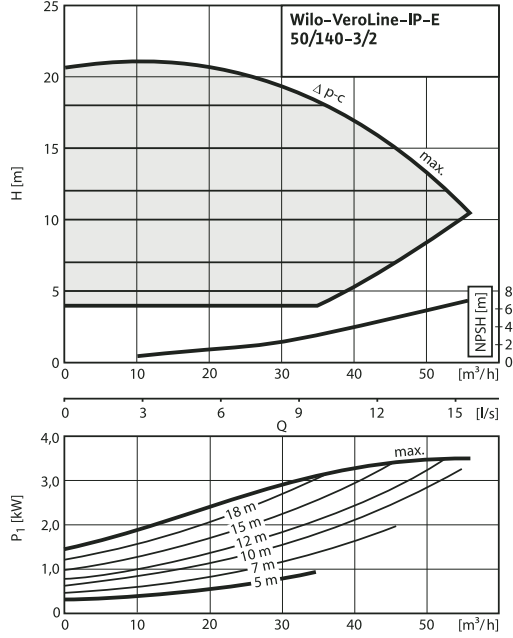
Isıtma, Soğutma, İklimlendirme, Endüstri

Enerji Tasarruflu Pompalar (Kuru Rotorlu, Tekli)

Wilo-VeroLine-IP-E Karakteristik Eğriler

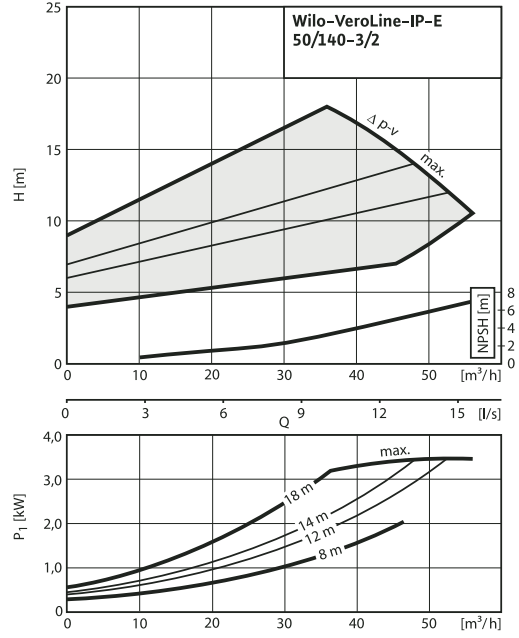
Wilo-VeroLine-IP-E 50/140-3/2

$\Delta p-c$ (sabit)



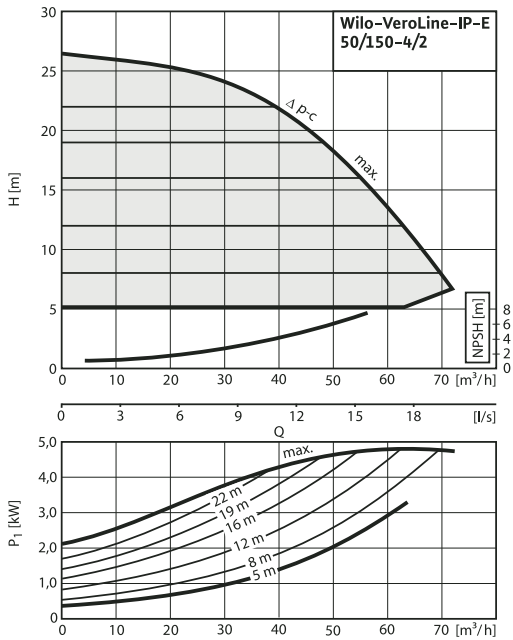
Wilo-VeroLine-IP-E 50/140-3/2

$\Delta p-v$ (değişken)



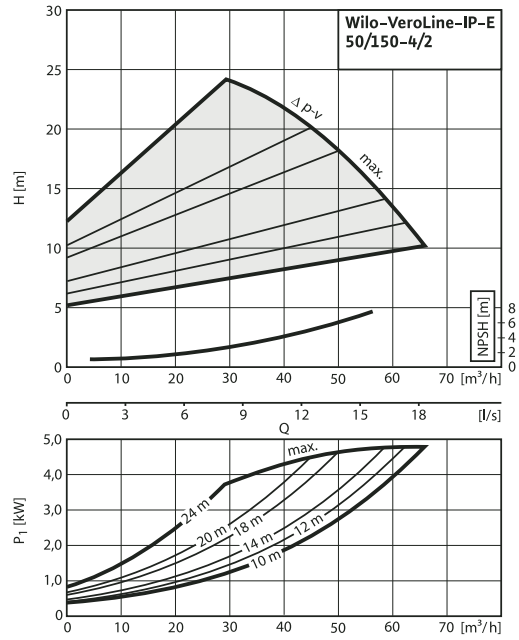
Wilo-VeroLine-IP-E 50/150-4/2

$\Delta p-c$ (sabit)



Wilo-VeroLine-IP-E 50/150-4/2

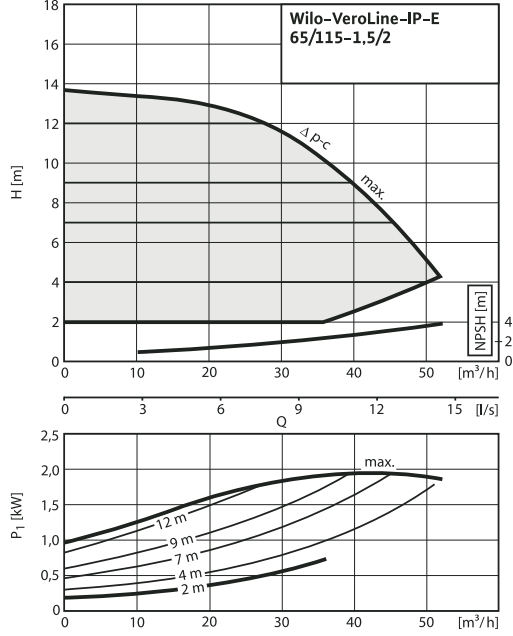
$\Delta p-v$ (değişken)



Wilo-VeroLine-IP-E Karakteristik Eğriler

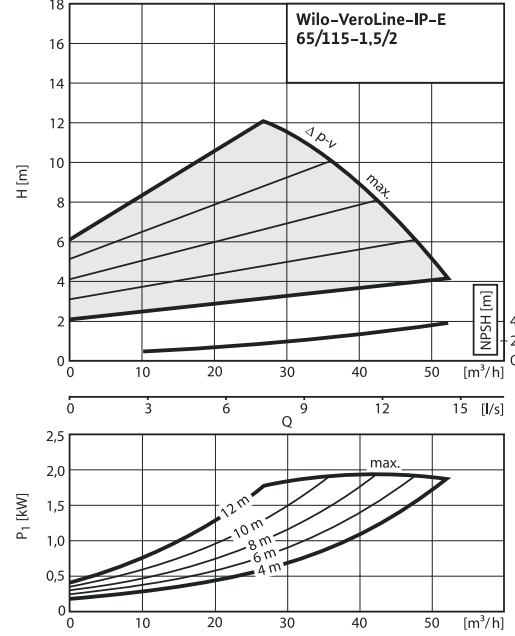
Wilo-VeroLine-IP-E 65/115-1,5/2

$\Delta p-c$ (sabit)



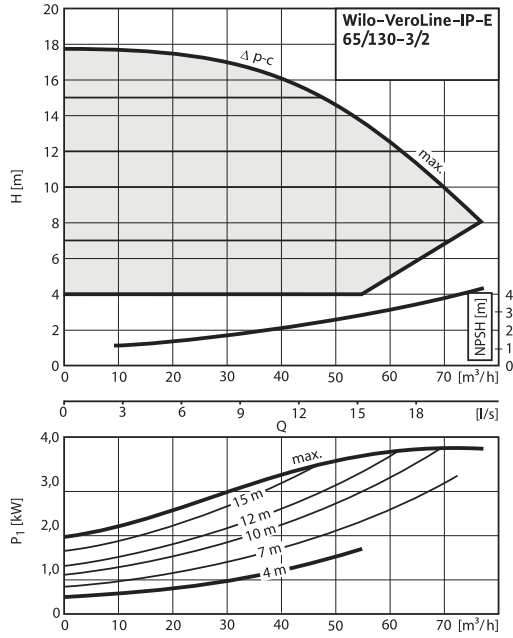
Wilo-VeroLine-IP-E 65/115-1,5/2

$\Delta p-v$ (değişken)



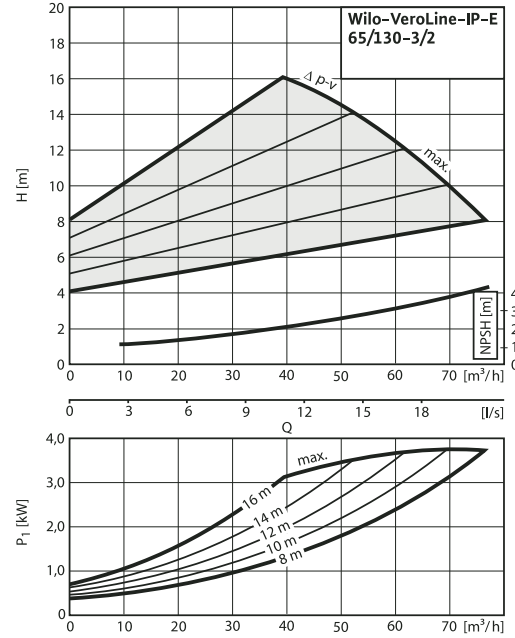
Wilo-VeroLine-IP-E 65/130-3/2

$\Delta p-c$ (sabit)



Wilo-VeroLine-IP-E 65/130-3/2

$\Delta p-v$ (değişken)



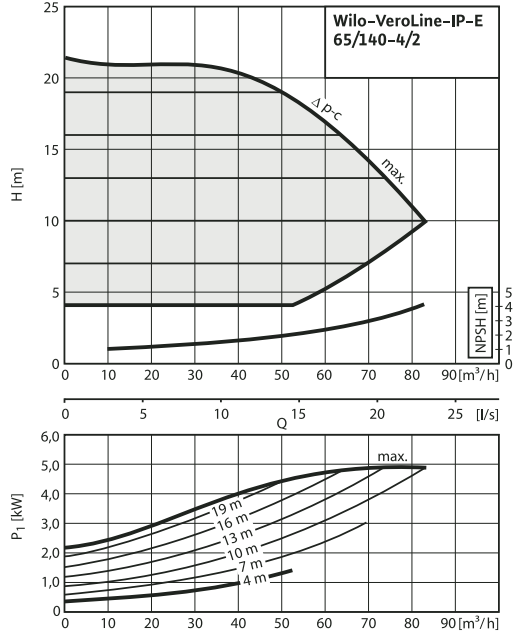
Isıtma, Soğutma, İklimlendirme, Endüstri

Enerji Tasarruflu Pompalar (Kuru Rotorlu, Tekli)

Wilo-VeroLine-IP-E Karakteristik Eğriler

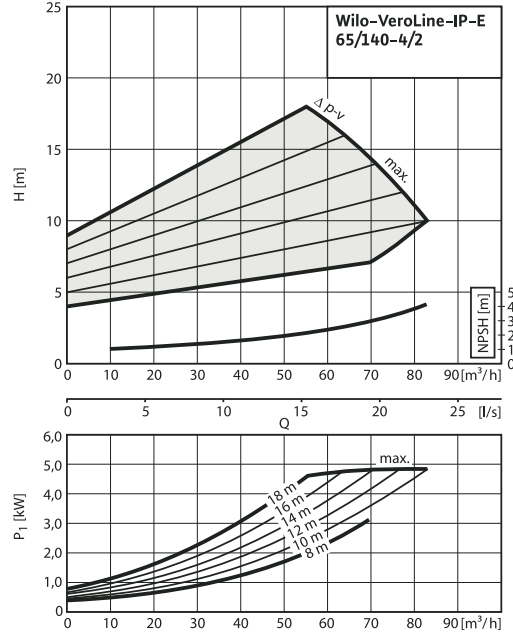
Wilo-VeroLine-IP-E 65/140-4/2

$\Delta p-c$ (sabit)



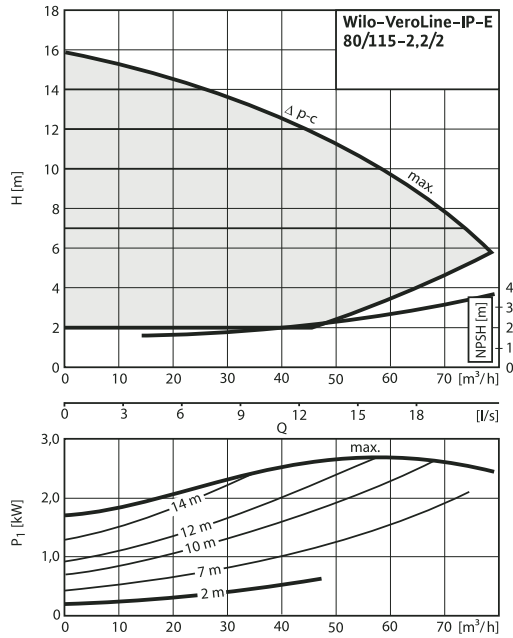
Wilo-VeroLine-IP-E 65/140-4/2

$\Delta p-v$ (değişken)



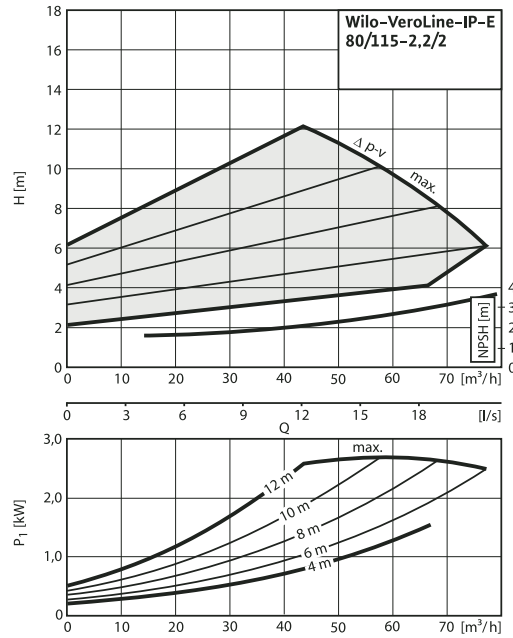
Wilo-VeroLine-IP-E 80/115-2,2/2

$\Delta p-c$ (sabit)



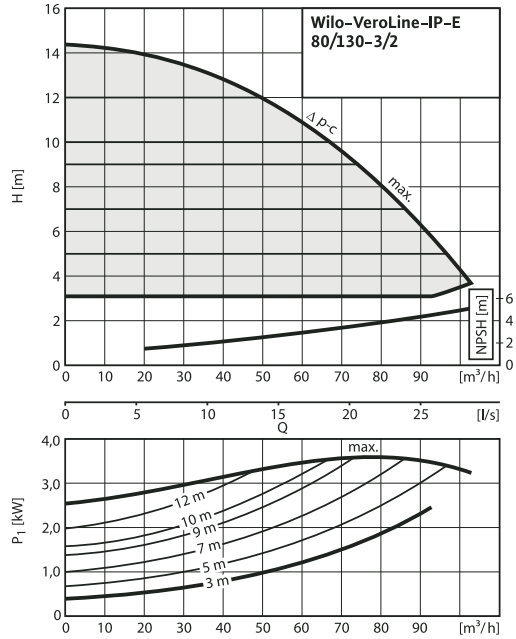
Wilo-VeroLine-IP-E 80/115-2,2/2

$\Delta p-v$ (değişken)

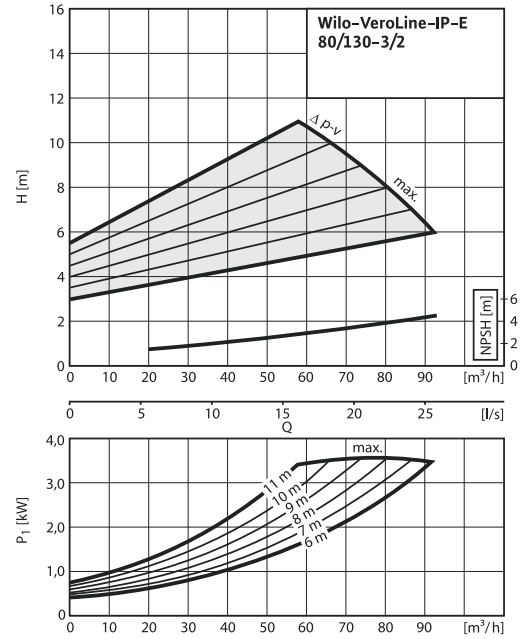


Wilo-VeroLine-IP-E Karakteristik Eğriler

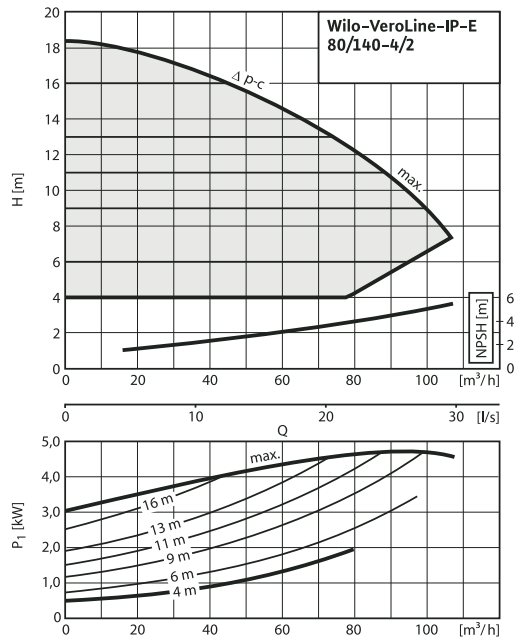
Wilo-VeroLine-IP-E 80/130-3/2

 Δp -c (sabit)

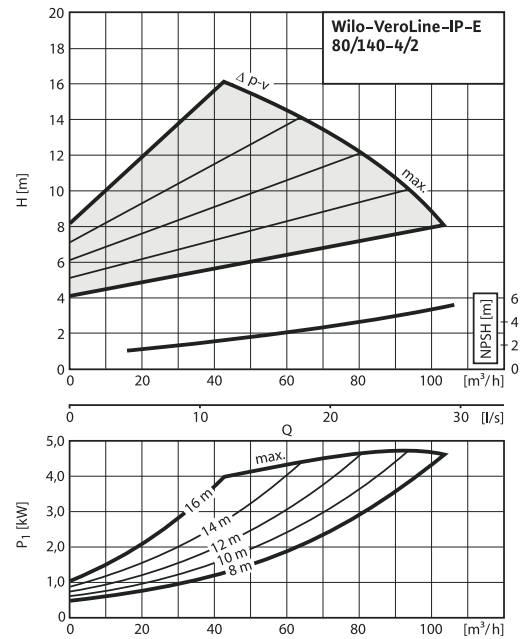
Wilo-VeroLine-IP-E 80/130-3/2

 Δp -v (değişken)

Wilo-VeroLine-IP-E 80/140-4/2

 Δp -c (sabit)

Wilo-VeroLine-IP-E 80/140-4/2

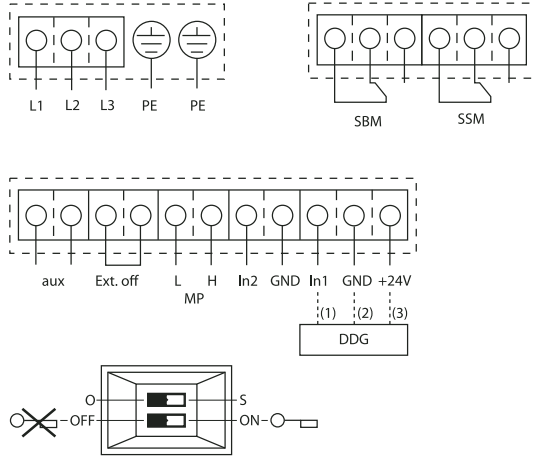
 Δp -v (değişken)

Isıtma, Soğutma, İklimlendirme, Endüstri

Enerji Tasarruflu Pompalar (Kuru Rotorlu, Tekli)

Wilo-VeroLine-IP-E Bağlantı Şemaları, Motor Bilgileri

Bağlantı Şeması



L1, L2, L3: Şebeke bağlantısı: 3~ 400VAC/50 Hz; 3~ 380VAC/60 Hz;

PE: Toprak

DDG: Fark basınç sensörü bağlantısı

In1 (1): Gerçek çalışma değeri girişi 0-10 V/0-20 mA; 2-10V/4-20 mA

GND (2): In1 ve In2 için toprak bağlantısı

+ 24 V (3): Harici cihaz/sensör için DC voltaj çıkışı/maksimum yük 60 mA

In2: Ayar değeri girişi 0-10 V/0-20 mA; 2-10V/4-20 mA

MP: Çoklu pompa, ikiz pompa işletimi için arayüz

Ext. off: "Harici durdurma" sinyal girişi. Pompa 24 VDC/10 mA harici sinyal ile çalıştırılıp durdurulabilir.

SBM:* Genel işletim sinyali (VDI3814'e göre değiştirme sinyali)

SSM:* Genel arıza sinyali (VDI3814'e göre değiştirme sinyali)

aux: Fonksiyonu yok

Sviç: 1: "O" çalışma ve "S" servis modları arası geçiş
2: menüye ulaşımı devreye alma/devreden çıkarma

Opsiyon: Bina otomasyonuna bağlantı için IF-Modül (PLR/LON)

*SBM ve SSM kontakları için yük kapasitesi

Min : 12 VDC / 10 mA

Max. 250 VAC/1 A

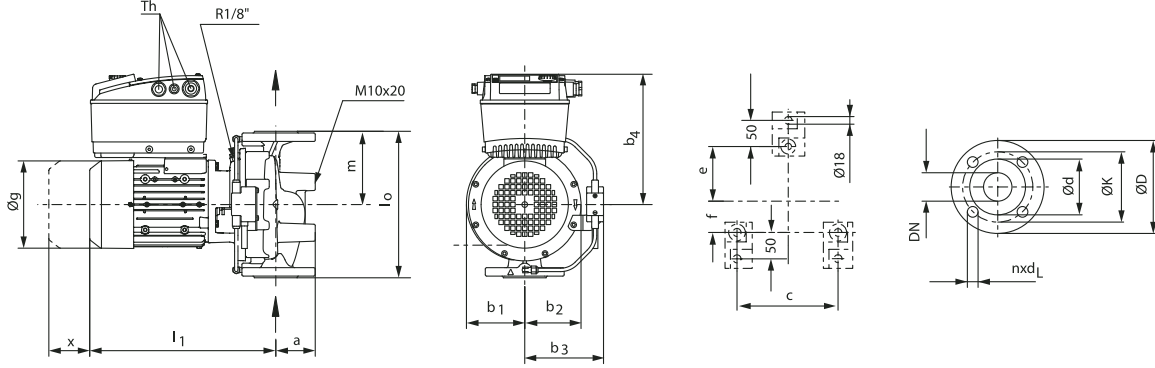
Motor bilgileri

Wilo-VeroLine-IP-E ...	Nominal Motor Gücü	Hız	Güç Tüketimi	Nominal Akım (yaklaşık)
	P ₂ [kW]	n [d/d]	P ₁ [kW]	I _N 3~400 V [A]
32/100-0.55/2	0.55	1100 - 2900	0.8	1.8
32/110-0.75/2	0.75	1100 - 2900	1.1	2.9
32/160-1.1/2	1.1	1100 - 2900	1.3	3.6
40/115-0.55/2	0.55	1100 - 2900	0.8	1.8
40/120-1.5/2	1.5	1100 - 2900	1.9	4.8
40/130-2.2/2	2.2	1100 - 2900	2.6	6.8
40/150-3/2	3	1100 - 2900	3.6	7.5
40/160-4/2	4	1100 - 2900	4.7	9.6
50/115-0.75/2	0.75	1100 - 2900	1.1	2.9
50/130-2.2/2	2.2	1100 - 2900	2.6	6.8
50/140-3/2	3	1100 - 2900	3.5	7.8
50/150-4/2	4	1100 - 2900	4.9	10.1
65/115-1.5/2	1.5	1100 - 2900	1.9	4.8
65/130-3/2	3	1100 - 2900	3.7	7.9
65/140-4/2	4	1100 - 2900	5.0	10.1
80/115-2.2/2	2.2	1100 - 2900	2.6	6.8
80/130-3/2	3	1100 - 2900	3.5	7.7
80/140-4/2	4	1100 - 2900	4.9	10.2

Trifaze motor, 2 kutuplu, 3~400V, 50 Hz / 3~380V, 60 Hz

Wilo-VeroLine-IP-E Ölçüler, Ağırlıklar

Pompa Ölçülü Resmi



Not: Kaideye montaj için ayaklı konsollar opsiyoneldir.

Ölçüler, Ağırlıklar

Wilo-VeroLine-IP-E ...	Nominal Flanş Çapı	Boy	Ölçüler												Kablo bağlantı rakoru	Ağırlık (yaklaşık)				
			DN	l ₀	a	b ₁	b ₂	b ₃	b ₄	c	e	f	Øg	l ₁			m	x	Th	M
			[mm]															-	[kg]	
32/100-0.55/2	32	260	70	101	106	135	221	90	40	50	145	308	130	150	2xM12	24				
32/110-0.75/2	32	260	70	101	106	142	228	90	40	50	163	331	130	150		25				
32/160-1.1/2	32	260	70	101	106	142	237	90	40	50	163	348	130	150		36				
40/115-0.55/2	40	250	75	80	90	114	228	90	40	50	145	310	125	150		21				
40/120-1.5/2	40	320	75	113	121	142	245	90	40	50	180	357	160	150		33				
40/130-2.2/2	40	320	75	113	121	142	247	90	40	50	203	356	160	150		35				
40/150-3/2	40	320	75	113	121	142	267	90	40	50	203	390	160	150		39				
40/160-4/2	40	320	75	113	121	142	279	90	40	50	227	390	160	150		45				
50/115-0.75/2	50	280	83	91	101	126	237	90	40	50	163	353	140	150		1xM16	26			
50/130-2.2/2	50	340	86	116	131	143	247	104	40	50	203	360	170	150		1xM20	38			
50/140-3/2	50	340	86	116	131	143	267	104	40	50	203	425	170	150		1xM25	42			
50/150-4/2	50	340	86	116	131	143	279	104	40	50	227	425	170	150		42				
65/115-1.5/2	65	340	93	100	118	137	255	104	40	50	180	389	170	150		35				
65/130-3/2	65	340	93	119	138	163	267	135	40	55	203	409	170	150		44				
65/140-4/2	65	340	93	119	138	163	279	135	40	55	227	409	170	150		50				
80/115-2.2/2	80	360	100	110	135	137	255	135	40	55	203	391	180	150		43				
80/130-3/2	80	360	105	125	153	143	267	135	40	55	203	425	180	150	54					
80/140-4/2	80	360	105	125	153	143	279	135	40	55	227	425	180	150	54					

Flanş Ölçüleri

Wilo-VeroLine-IP-E ...	Nominal Flanş Çapı	Pompa Flanş Ölçüleri				
		DN	Ø D	Ø d	Ø k	n x Ø d _L
		-	[mm]			[delik adeti x mm]
32...	32	140	78	100	4 x 19	
40...	40	150	88	110	4 x 19	
50...	50	165	102	125	4 x 19	
65...	65	185	122	145	4 x 19	
80...	80	200	138	160	8 x 19	

EN 1902-2'ye göre PN16 delikli