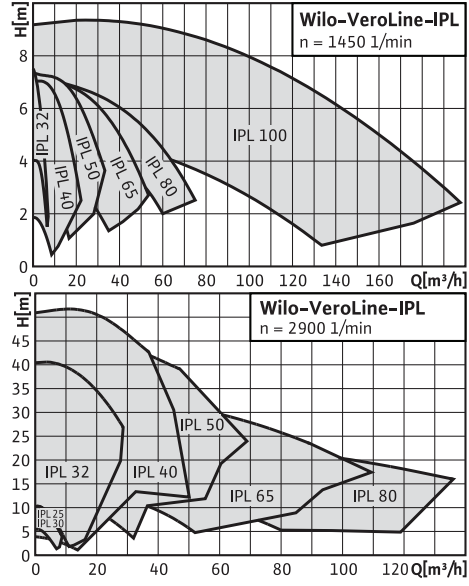


Isıtma, Soğutma, İklimlendirme, Endüstri

Kuru Rotorlu Standart Pompalar (Tekli)

Wilo-VeroLine-IPL



Dizayn

Dişli ve flanş bağlantılı, kuru rotorlu (salmastralı), yekpare milli, inline tip pompa

Uygulama

Isıtma , soğutma ve iklimlendirme tesisatları

Pompa Kodlaması

Örnek : **IPL 40/160-4/2**

IPL İne line pompa

40 Nominal bağlantı çapı DN

160 Nominal çark çapı

4 Nominal motor gücü P_2 , kW

2 Kutup sayısı

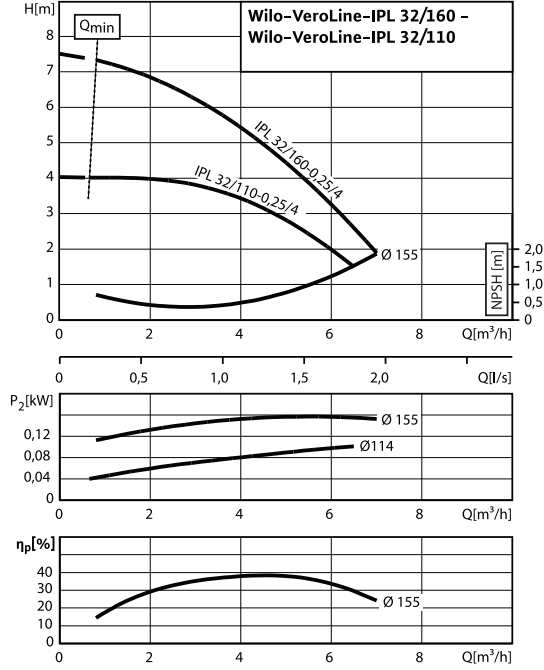
Ürün Özellikleri / Faydalar

- Kataforez kaplama ile yüksek korozyon dayanımı
- Motor gövdesi ve laternada özel kondensat tahliye delikleri
- Yekpare mil (motor ve pompa mili ortak)
- Versiyon N : standart B5 veya V1 motor
- Cebri soğutmalı iki yönlü mekanik salmastra
- Gövde üzerindeki ayaklar ile kolay montaj

Wilo-VeroLine-IPL Karakteristik Eğriler

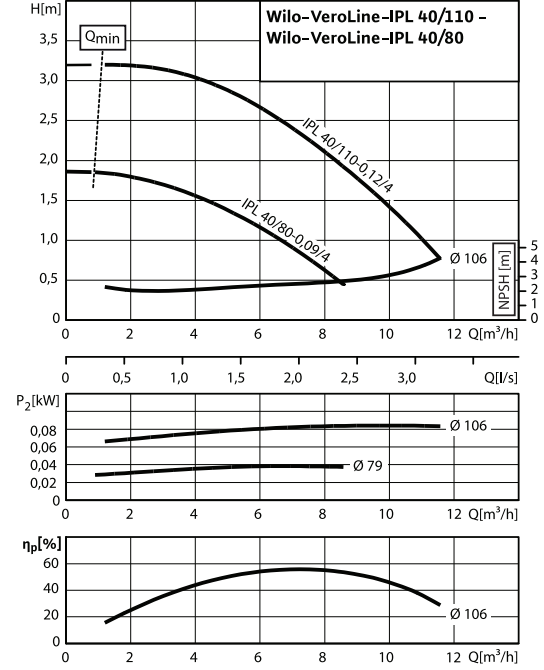
Wilo-VeroLine-IPL 32/110-0,25/4 - 32/160-0,25/4

Devir hızı 1450 d/d



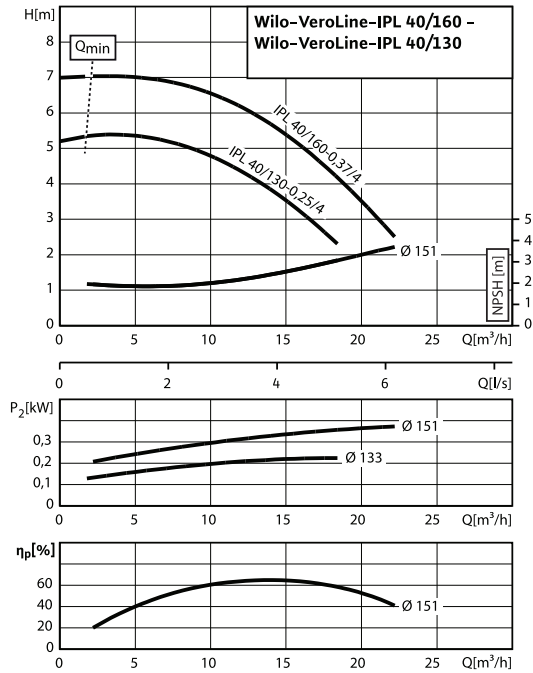
Wilo-VeroLine-IPL 40/80-0,09/4 - 40/110-0,12/4

Devir hızı 1450 d/d



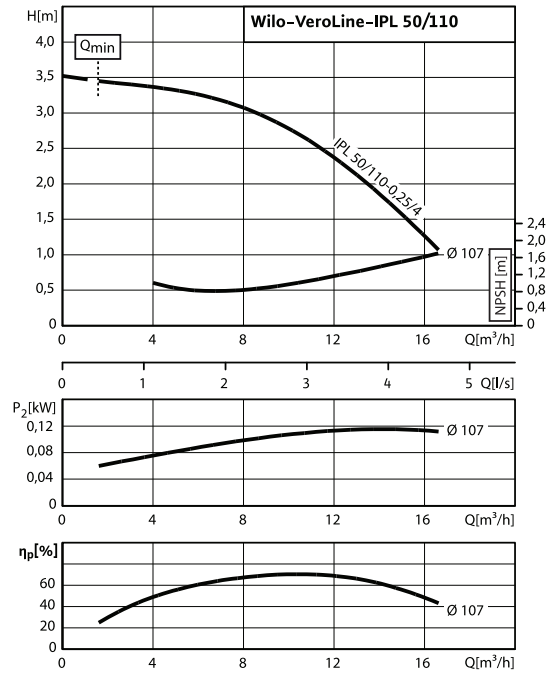
Wilo-VeroLine-IPL 40/130-0,25/4 - 40/160-0,37/4

Devir hızı 1450 d/d



Wilo-VeroLine-IPL 50/110-0,25/4

Devir hızı 1450 d/d



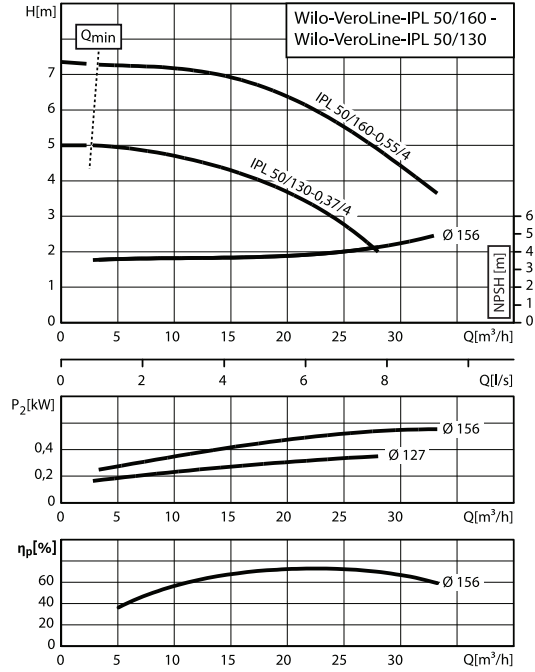
Isıtma, Soğutma, İklimlendirme, Endüstri

Kuru Rotorlu Standart Pompalar (Tekli)

Wilo-VeroLine-IPL Karakteristik Eğriler

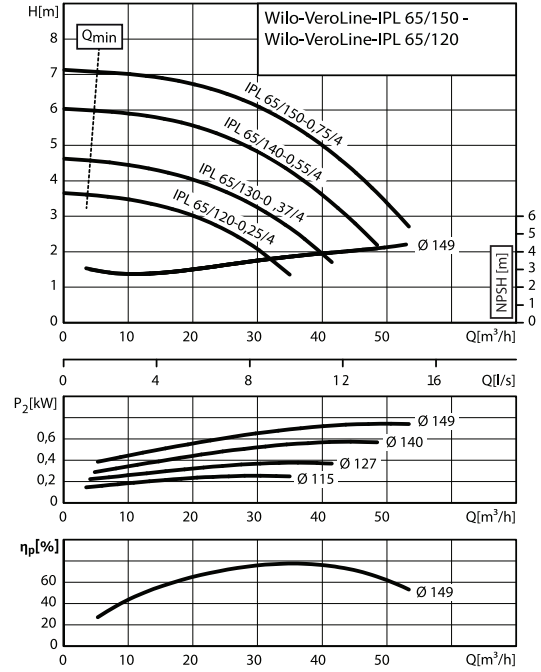
Wilo-VeroLine-IPL 50/130-0,37/4 - 50/160-0,55/4

Devir hızı 1450 d/d



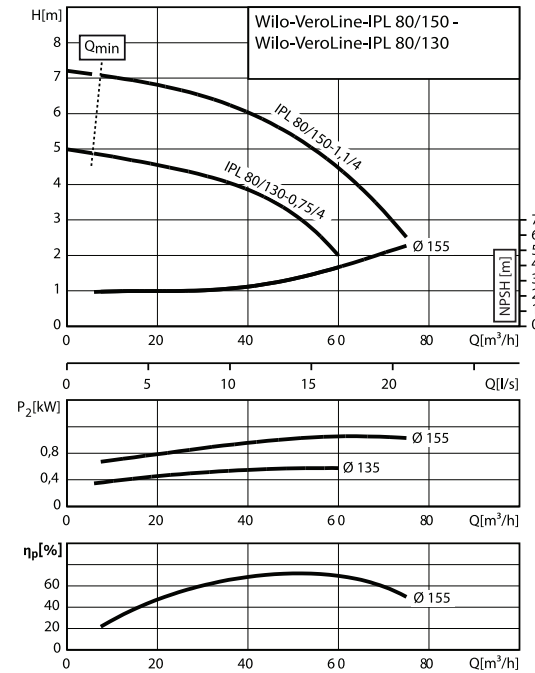
Wilo-VeroLine-IPL 65/120-0,25/4 - 65/150-0,75/4

Devir hızı 1450 d/d



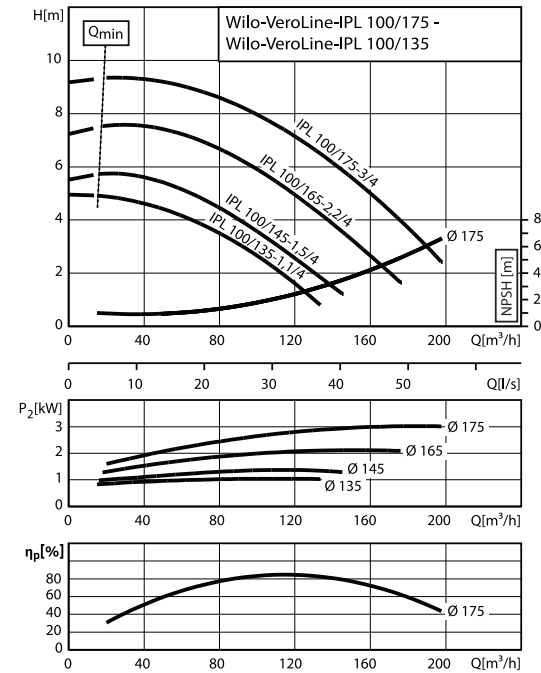
Wilo-VeroLine-IPL 80/130-0,75/4 - 80/150-1,1/4

Devir hızı 1450 d/d



Wilo-VeroLine-IPL 100/135-1,1/4 - 100/175-3/4

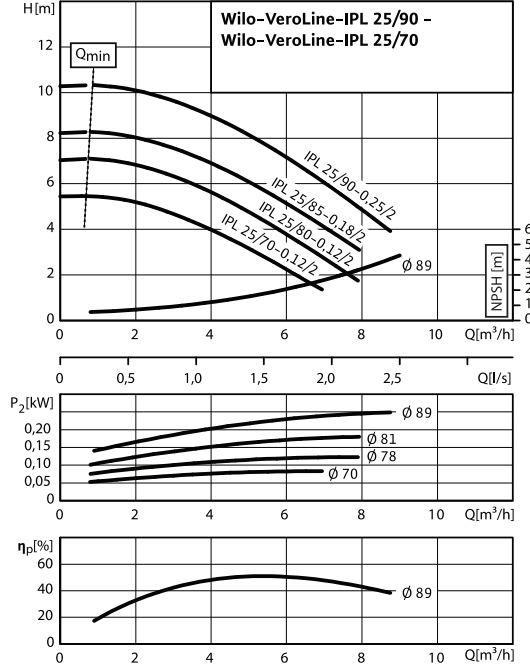
Devir hızı 1450 d/d



Wilo-VeroLine-IPL Karakteristik Eğriler

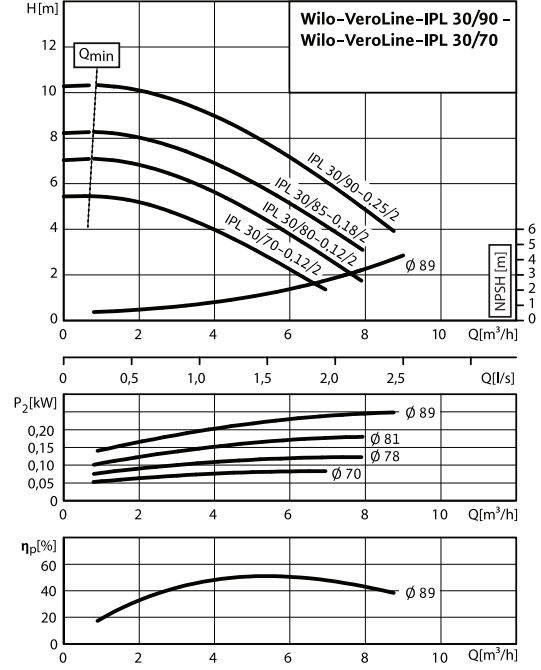
Wilo-VeroLine-IPL 25/70-0,12/2 - 25/90-0,25/2

Devir hızı 2900 d/d



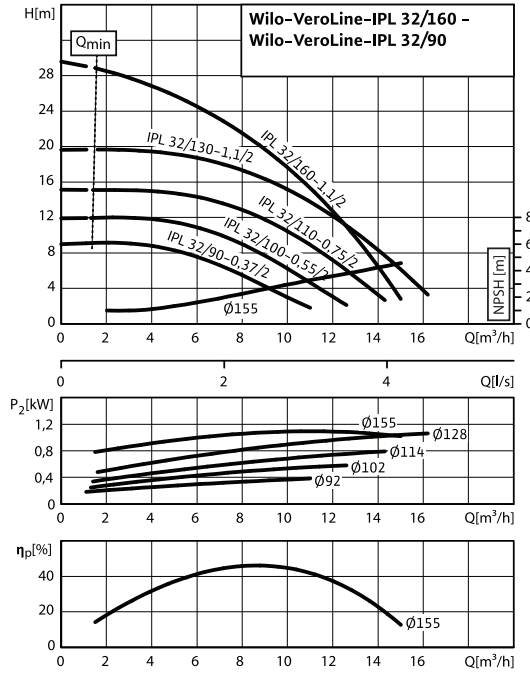
Wilo-VeroLine-IPL 30/70-0,12/2 - 30/90-0,25/2

Devir hızı 2900 d/d



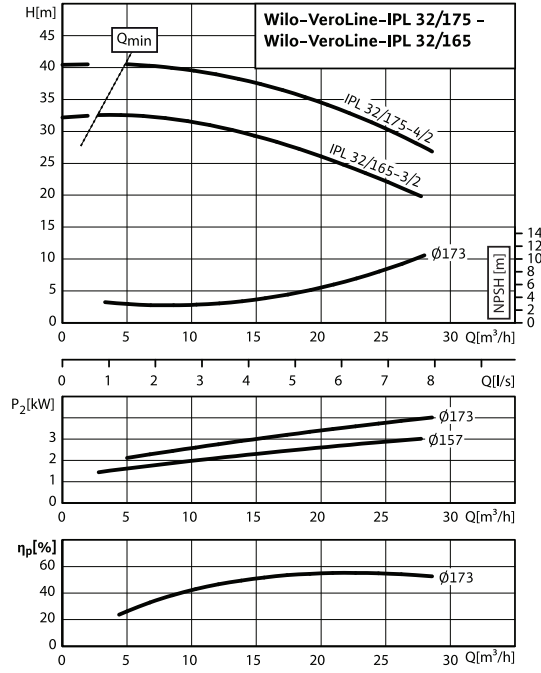
Wilo-VeroLine-IPL 32/90-0,37/2 - 32/160-1,1/2

Devir hızı 2900 d/d



Wilo-VeroLine-IPL 32/165-3/2 - 32/175-4/2

Devir hızı 2900 d/d



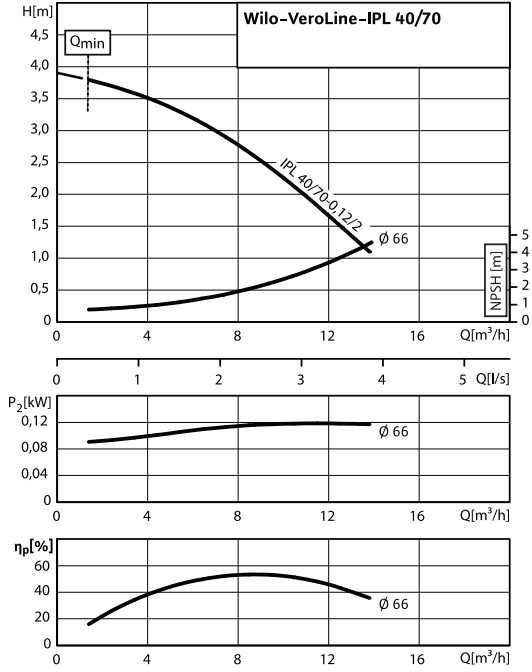
Isıtma, Soğutma, İklimlendirme, Endüstri

Kuru Rotorlu Standart Pompalar (Tekli)

Wilo-VeroLine-IPL Karakteristik Eğriler

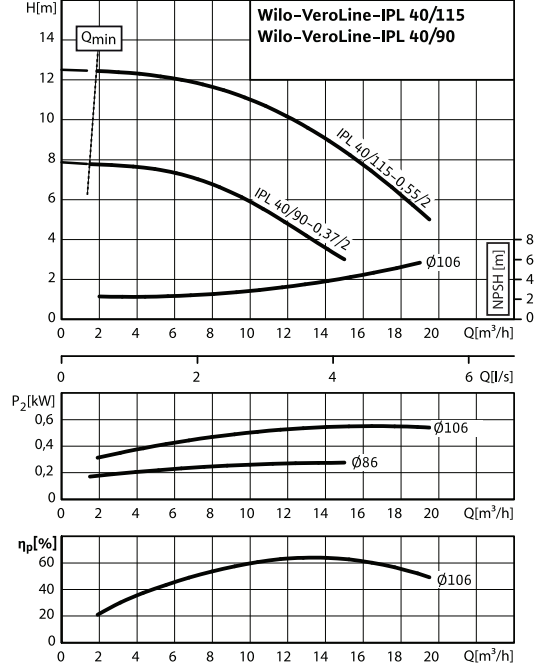
Wilo-VeroLine-IPL 40/70-0,12/2

Devir hızı 2900 d/d



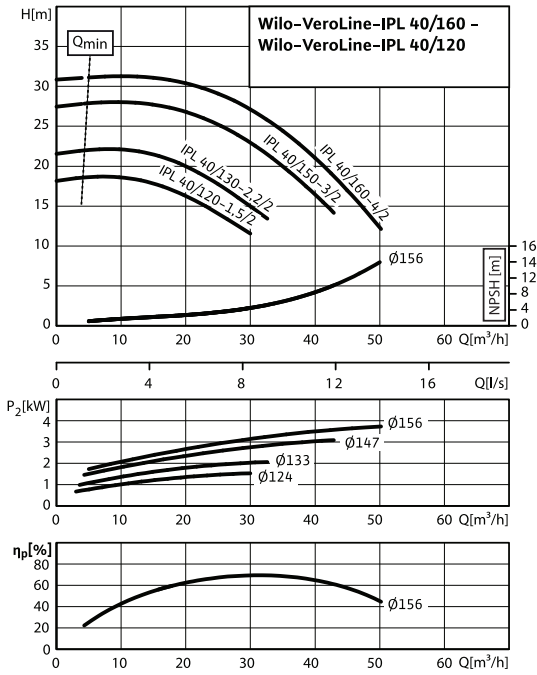
Wilo-VeroLine-IPL 40/90-0,37/2 - 40/115-0,55/2

Devir hızı 2900 d/d



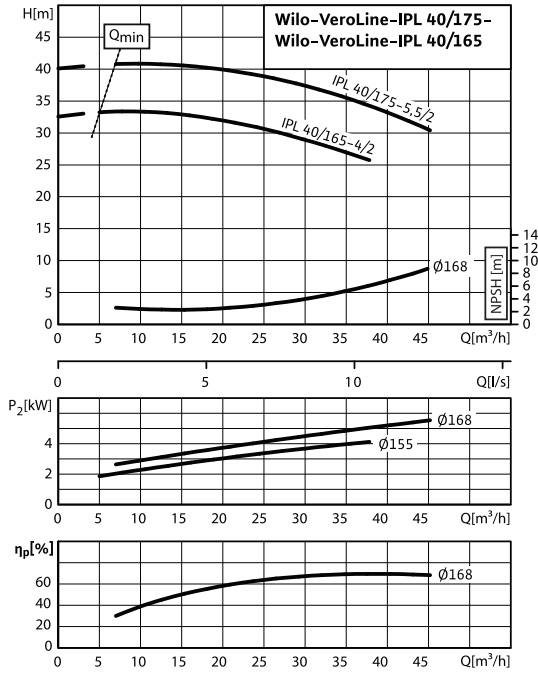
Wilo-VeroLine-IPL 40/120-1,5/2 - 40/160-4/2

Devir hızı 2900 d/d



Wilo-VeroLine-IPL 40/165-4/2 - 40/175-5,5/2

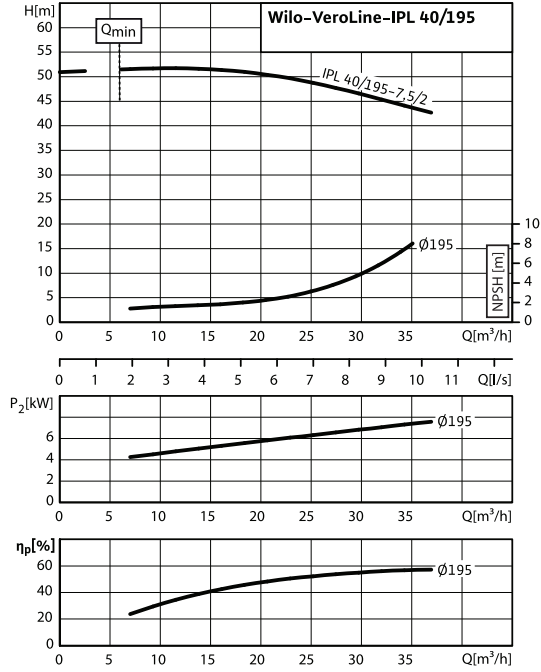
Devir hızı 2900 d/d



Wilo-VeroLine-IPL Karakteristik Eğriler

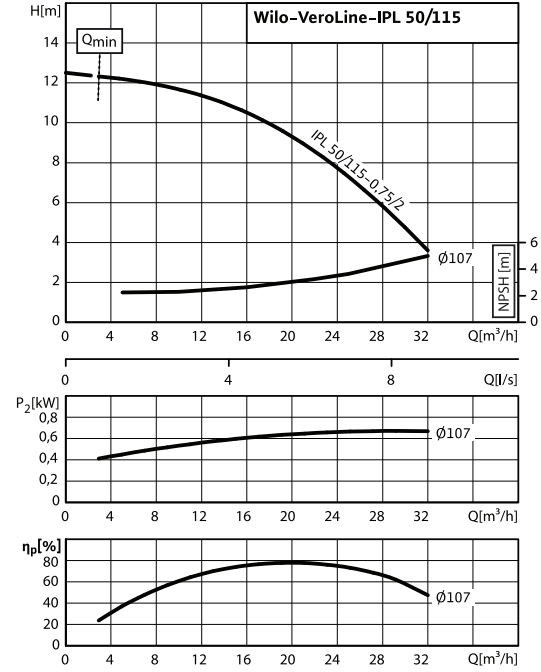
Wilo-VeroLine-IPL 40/195-7,5/2

Devir hızı 2900 d/d



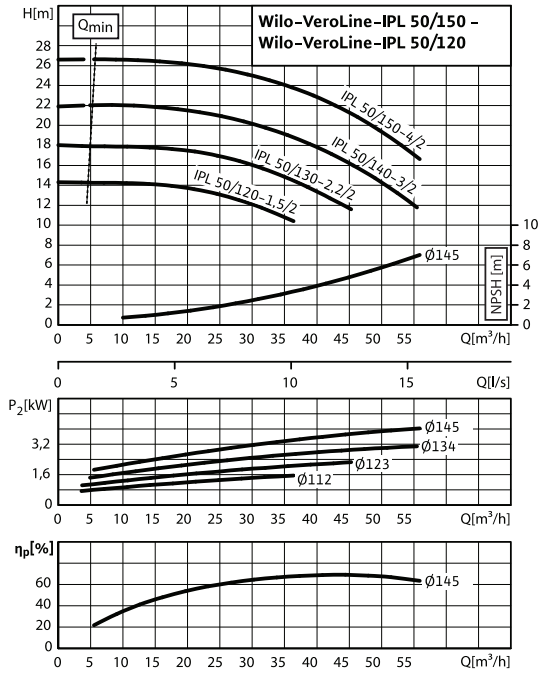
Wilo-VeroLine-IPL 50/115-0,75/2

Devir hızı 2900 d/d



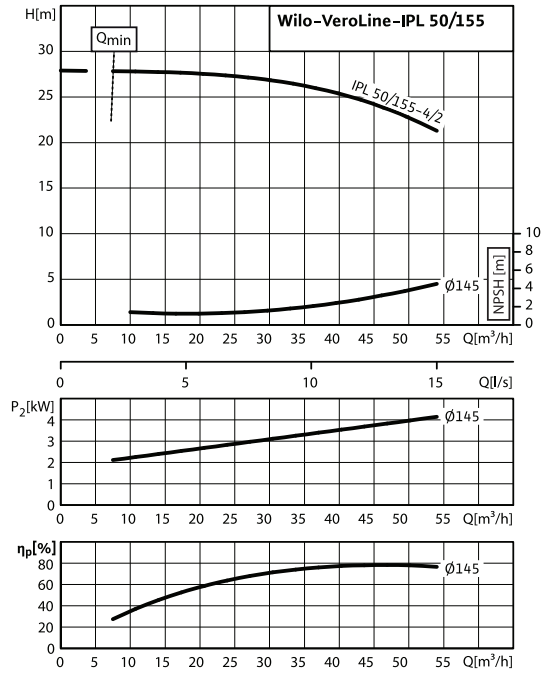
Wilo-VeroLine-IPL 50/120-1,5/2 - 50/150-4/2

Devir hızı 2900 d/d



Wilo-VeroLine-IPL 50/155-4/2

Devir hızı 2900 d/d



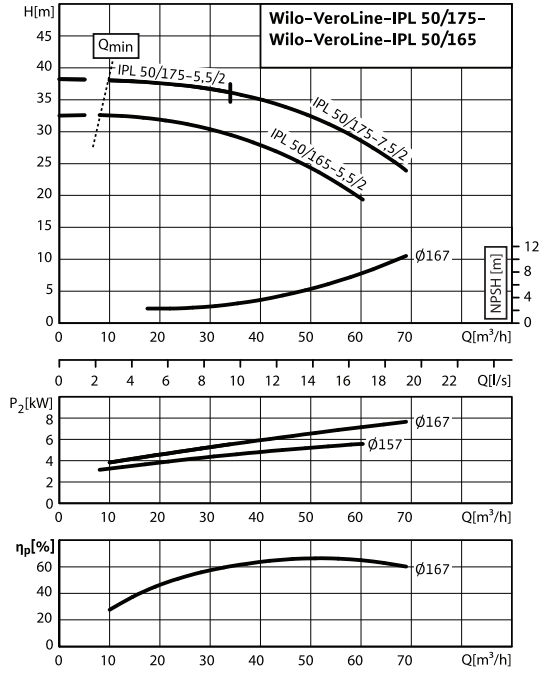
Isıtma, Soğutma, İklimlendirme, Endüstri

Kuru Rotorlu Standart Pompalar (Tekli)

Wilo-VeroLine-IPL Karakteristik Eğriler

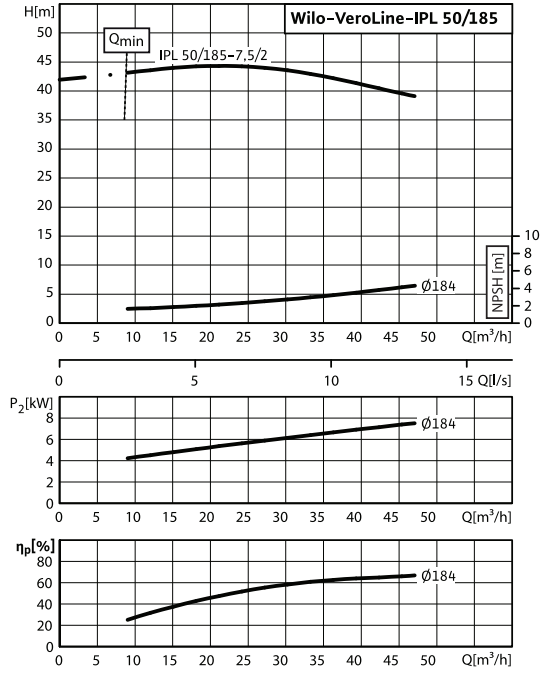
Wilo-VeroLine-IPL 50/165-5,5/2 - 50/175-7,5/2

Devir hızı 2900 d/d



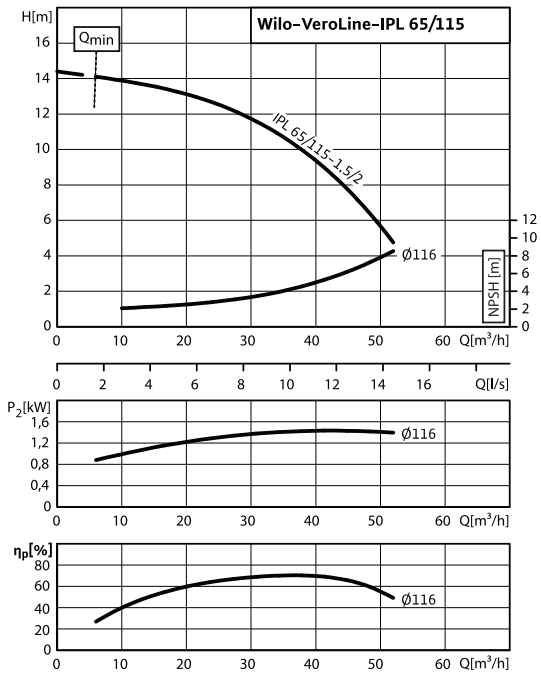
Wilo-VeroLine-IPL 50/185-7,5/2

Devir hızı 2900 d/d



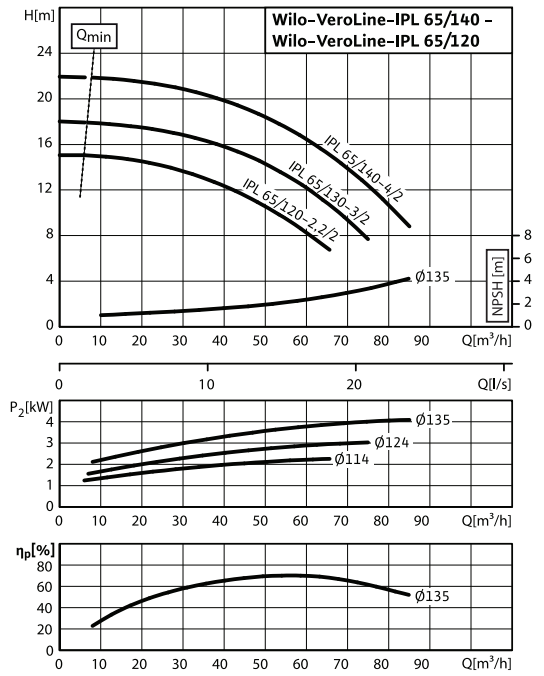
Wilo-VeroLine-IPL 65/115-1,5/2

Devir hızı 2900 d/d



Wilo-VeroLine-IPL 65/120-2,2/2 - 65/140-4/2

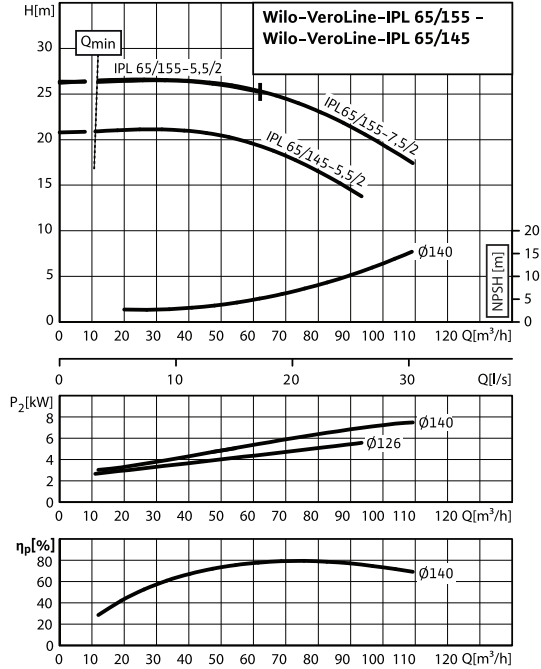
Devir hızı 2900 d/d



Wilo-VeroLine-IPL Karakteristik Eğriler

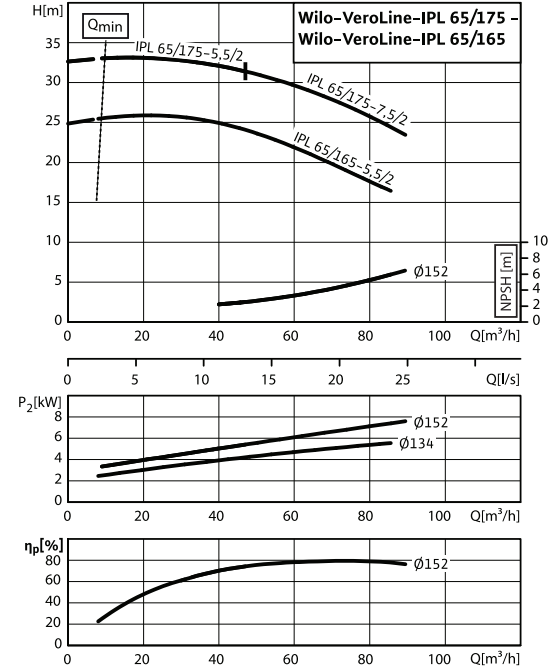
Wilo-VeroLine-IPL 65/145-5,5/2 - 65/155-7,5/2

Devir hızı 2900 d/d



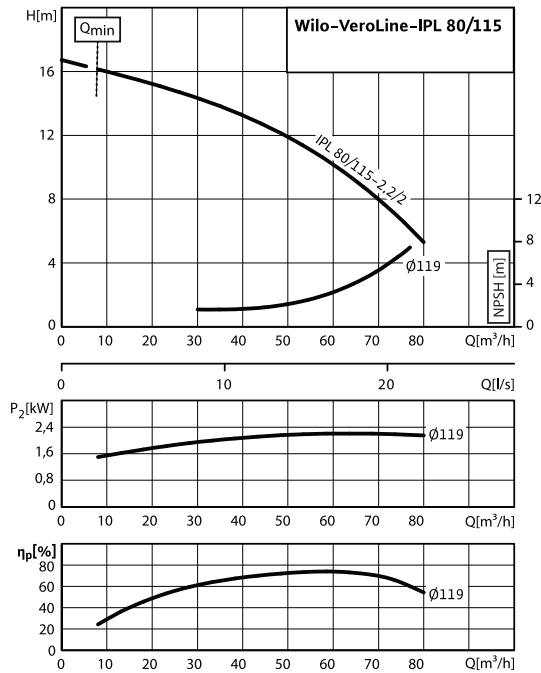
Wilo-VeroLine-IPL 65/165-5,5/2 - 65/175-7,5/2

Devir hızı 2900 d/d



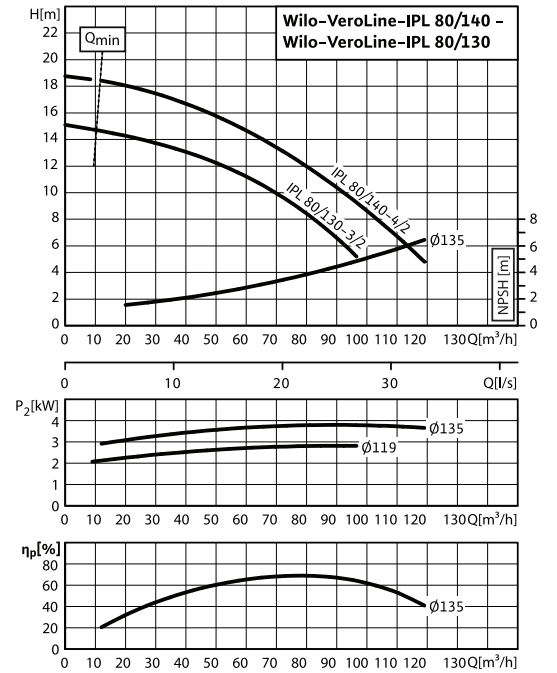
Wilo-VeroLine-IPL 80/115-2,2/2

Devir hızı 2900 d/d



Wilo-VeroLine-IPL 80/130-3/2 - 80/140-4/2

Devir hızı 2900 d/d



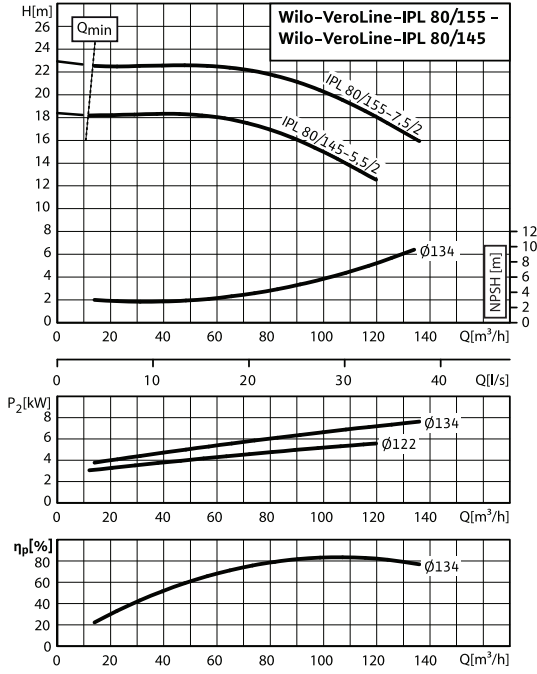
Isıtma, Soğutma, İklimlendirme, Endüstri

Kuru Rotorlu Standart Pompalar (Tekli)

Wilo-VeroLine-IPL Karakteristik Eğriler

Wilo-VeroLine-IPL 80/145-5,5/2 - 80/155-7,5/2

Devir hızı 2900 d/d

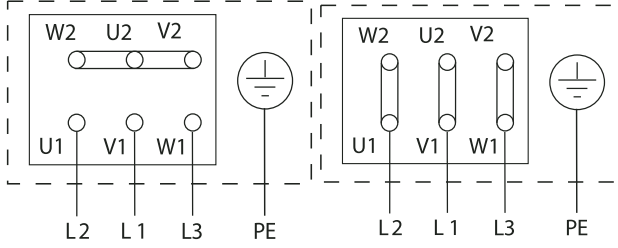


Wilo-VeroLine-IPL Bağlantı Şemaları, Motor Bilgileri

Bağlantı Şeması

Y resim

Δ resim



Motor koruma svici kullanılmalıdır. Dönüş yönü kontrol edilmelidir. Dönüş yönünü değiştirmek için, herhangi iki fazı yer değiştiriniz.

$P_2 \leq 3 \text{ kW}$	3~400 V Y 3~230 V Δ
$P_2 \geq 4 \text{ kW}$	3~690 V Y 3~400 V Δ

Köprüler kaldırılarak, Y- Δ kalkış mümkündür.

Motor Bilgileri (1450 d/d)

Wilo-VeroLine-IPL ...	Nominal Akım (yaklaşık)	Güç Faktörü	Verim
	I_N 3~400 V	$\cos \varphi$	η_M
	[A]	-	-
0.09 kW	0.37	0.69	0.51
0.12 kW	0.45	0.67	0.58
0.25 kW	0.86	0.74	0.61
0.37 kW	1.10	0.75	0.65
0.55 kW	1.70	0.69	0.70
0.75 kW	1.95	0.76	0.73
1.1 kW	2.90	0.78	0.74
1.5 kW	3.35	0.82	0.79
2.2 kW	4.70	0.83	0.82
3 kW	6.40	0.83	0.83

Motor Bilgileri (2900 d/d)

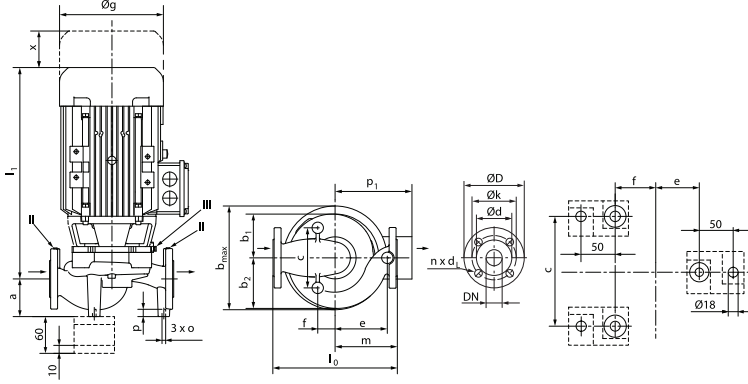
Wilo-VeroLine-IPL ...	Nominal Akım (yaklaşık)	Güç Faktörü	Verim
	I_N 3~400 V	$\cos \varphi$	η_M
	[A]	-	-
0.12 kW	0.35	0.74	0.67
0.18 kW	0.53	0.77	0.68
0.25 kW	0.70	0.76	0.66
0.37 kW	1.00	0.84	0.68
0.55 kW	1.40	0.82	0.70
0.75 kW	2.00	0.86	0.68
1.1 kW	2.60	0.84	0.79
1.5 kW	3.25	0.81	0.80
2.2 kW	4.60	0.87	0.81
3 kW	6.10	0.86	0.84
4 kW	8.20	0.86	0.85
5.5 kW	10.50	0.90	0.84
7.5 kW	14.30	0.90	0.86

Isıtma, Soğutma, İklimlendirme, Endüstri

Kuru Rotorlu Standart Pompalar (Tekli)

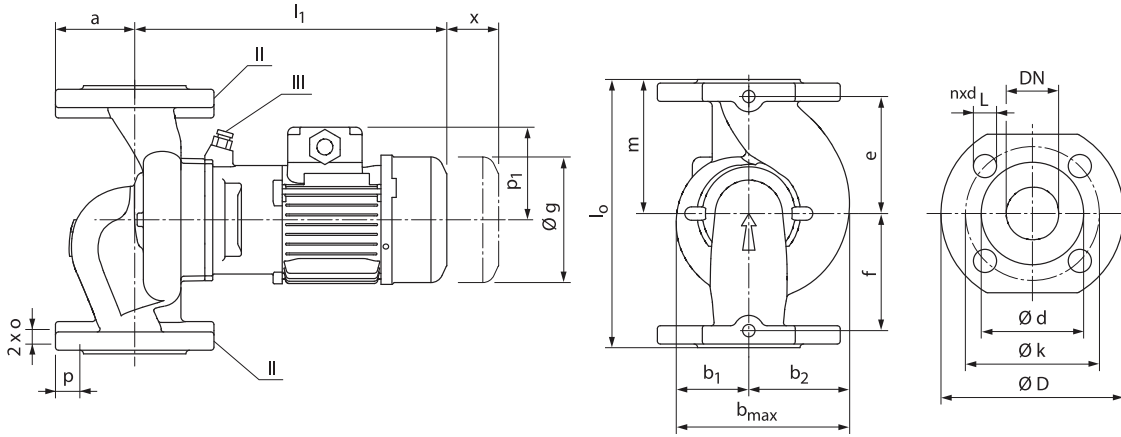
Wilo-VeroLine-IPL Ölçüler, Ağırlıklar

Pompa Ölçülü Resmi A



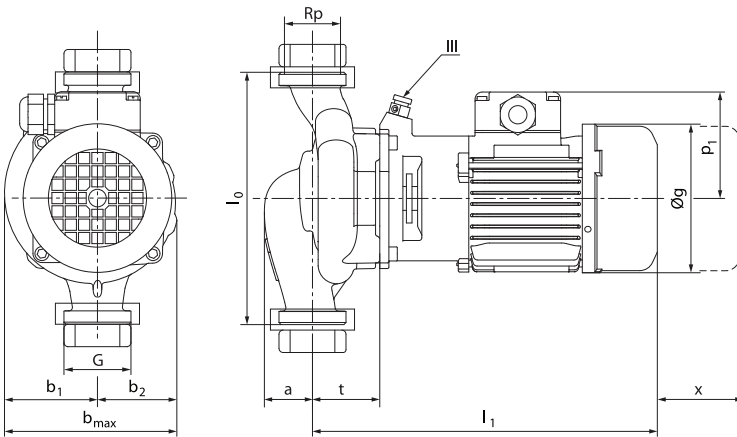
Not: Gövde üzerinde montaj ayakları mevcuttur. Konsol opsiyoneldir. II : basınç ölçme R 1/8" , III : hava tahliye R 1/8"

Pompa Ölçülü Resmi B



Not: Gövde üzerinde montaj ayakları mevcuttur. Konsol opsiyoneldir. II : basınç ölçme R 1/8" , III : hava tahliye R 1/8"

Pompa Ölçülü Resmi C



III : hava tahliye R 1/8"

Wilo-VeroLine-IPL Ölçüler, Ağırlıklar

Ölçüler, Ağırlıklar (1450 d/d, flanş bağlantılı)

Wilo-VeroLine-IPL ...	Nominal Flanş Çapı	Boy	Ölçüler														Çark*	Ağırlık (yaklaşık)	Pompa Ölçülü Resmi					
			DN	l ₀	a	b ₁	b ₂	b _{max}	c	e	f	Ø g	l _{1max}	m	o	p				p ₁	x	-	M	-
			-	[mm]																-	[kg]	-		
32/110-0.25/4	32	260	70	101	106	207	90	40	50	143	295	130	M10	20	120	150	P	20	A					
32/160-0.25/4	32	260	70	101	106	207	90	40	50	143	295	130	M10	20	120	150	P	20	A					
40/80-0.09/4	40	250	65	68	78	146	-	110	110	125	272	125	M10	20	107	150	P	13	B					
40/110-0.12/4	40	250	90	80	90	170	90	40	50	143	294	125	M10	20	120	150	P	18	B					
40/130-0.25/4	40	320	75	113	121	234	90	40	50	143	289	160	M10	20	120	150	P	21	A					
40/160-0.37/4	40	320	75	113	121	234	90	40	50	143	289	160	M10	20	120	150	P	22	A					
50/110-0.25/4	50	280	83	91	101	192	90	40	50	143	300	140	M10	20	120	150	P	22	A					
50/130-0.37/4	50	340	86	116	131	247	104	40	50	143	291	170	M10	20	120	150	P	25	A					
50/160-0.55/4	50	340	86	116	131	247	104	40	50	185	327	170	M10	20	128	150	P	27	A					
65/120-0.25/4	65	340	93	119	138	257	135	40	55	143	297	170	M10	20	120	150	P	26	A					
65/130-0.37/4	65	340	93	119	138	257	135	40	55	143	297	170	M10	20	120	150	P	27	A					
65/140-0.55/4	65	340	93	119	138	257	135	40	55	185	333	170	M10	20	128	150	P	30	A					
65/150-0.75/4	65	340	93	119	138	257	135	40	55	185	333	170	M10	20	128	150	P	31	A					
80/130-0.75/4	80	360	105	125	153	278	135	40	55	185	339	180	M10	20	128	150	P	34	A					
80/150-1.1/4	80	360	105	125	153	278	135	40	55	185	339	180	M10	20	128	150	P	35	A					
100/135-1.1/4	100	500	120	159	197	356	200	226	60	176	398	250	M12	20	148	150	D	69	A					
100/145-1.5/4	100	500	120	159	197	356	200	226	60	176	423	250	M12	20	148	150	D	69	A					
100/165-2.2/4	100	500	120	159	197	356	200	226	60	196	450	250	M12	20	155	150	D	76	A					
100/175-3/4	100	500	120	159	197	356	200	226	60	196	450	250	M12	20	155	150	D	77	A					

l1 : Versiyon N için, l1 boyu kullanılan spesifik motorun ölçülerine bağlıdır.

*çark malzemesi : D dökme demir, P plastik

Ölçüler, Ağırlıklar (2900 d/d, dişli bağlantılı)

Wilo-VeroLine-IPL ...	Dişli	Boru Bağlantısı	Boy	Ölçüler										Çark*	Ağırlık (yaklaşık)	Pompa Ölçülü Resmi					
				G	Rp	l ₀	a	b ₁	b ₂	b _{max}	Ø g	l ₁	p ₁				t	x	-	M	-
				-	[mm]												-	[kg]	-		
25/70-0.12/2	1½	1	180	34	66	57	123	106	247	76	48	100	P	6.5	C						
25/80-0.12/2	1½	1	180	34	66	57	123	106	247	76	48	100	P	6.5	C						
25/85-0.18/2	1½	1	180	52	69	68	137	125	251	107	44	100	P	8.0	C						
25/90-0.25/2	1½	1	180	52	69	68	137	125	251	107	44	100	P	8.6	C						
30/70-0.12/2	2	1¼	180	34	66	57	123	106	254	76	55	100	P	6.5	C						
30/80-0.12/2	2	1¼	180	34	66	57	123	106	254	76	55	100	P	6.5	C						
30/85-0.18/2	2	1¼	180	52	69	68	137	125	251	107	44	100	P	8.0	C						
30/90-0.25/2	2	1¼	180	52	69	68	137	125	251	107	44	100	P	8.6	C						

*çark malzemesi : D dökme demir, P plastik

Isıtma, Soğutma, İklimlendirme, Endüstri

Kuru Rotorlu Standart Pompalar (Tekli)

Wilo-VeroLine-IPL Ölçüler, Ağırlıklar

Ölçüler, Ağırlıklar (2900 d/d, flanş bağlantılı)

Wilo-VeroLine-IPL ...	Nominal Flanş Çapı	Boy	Ölçüler														Çark*	Ağırlık (yaklaşık)	Pompa Ölçülü Resmi					
			DN	l ₀	a	b ₁	b ₂	b _{max}	c	e	f	Ø g	l _{1max}	m	o	p				p ₁	x	-	M	-
			-	[mm]																-	[mm]	-	[kg]	-
32/90-0.37/2	32	260	70	101	106	207	90	40	50	143	295	130	M10	20	120	150	P	20	A					
32/100-0.55/2	32	260	70	101	106	207	90	40	50	143	295	130	M10	20	120	150	P	20	A					
32/110-0.75/2	32	260	70	101	106	207	90	40	50	143	295	130	M10	20	120	150	P	22	A					
32/130-1.1/2	32	260	70	101	106	207	90	40	50	185	331	130	M10	20	128	150	P	24	A					
32/160-1.1/2	32	260	70	101	106	207	90	40	50	185	331	130	M10	20	128	150	P	24	A					
32/165-3/2	32	320	100	112	124	236	120	132	68	217	396	155	M10	20	160	150	D	43	A					
32/175-4/2	32	320	100	112	124	236	120	132	68	220	412	155	M10	20	168	150	D	50	A					
40/70-0.12/2	40	220	65	75	84	159	-	95	95	106	259	110	M10	20	76	150	P	11	B					
40/90-0.37/2	40	250	90	80	90	170	90	40	50	143	294	125	M10	20	120	150	P	19	A					
40/115-0.55/2	40	250	90	80	90	170	90	40	50	143	294	125	M10	20	120	150	P	19	A					
40/120-1.5/2	40	320	75	113	121	234	90	40	50	185	325	160	M10	20	128	150	P	30	A					
40/130-2.2/2	40	320	75	113	121	234	90	40	50	193	353	160	M10	20	151	150	P	32	A					
40/150-3/2	40	320	75	113	121	234	90	40	50	217	388	160	M10	20	160	150	P	37	A					
40/160-4/2	40	320	75	113	121	234	90	40	50	232	421	160	M10	20	168	150	P	44	A					
40/165-4/2	40	340	82	113	129	242	130	149	58	220	426	170	M10	20	168	150	D	54	A					
40/175-5.5/2	40	340	82	113	129	242	130	149	58	232	446	170	M10	20	168	150	D	55	A					
40/195-7.5/2	40	440	110	145	149	294	180	172	78	279	520	190	M10	20	188	150	D	84	A					
50/115-0.75/2	50	280	83	91	101	192	90	40	50	143	300	140	M10	20	120	150	P	24	A					
50/120-1.5/2	50	340	86	116	131	247	104	40	50	185	327	170	M10	20	128	150	P	33	A					
50/130-2.2/2	50	340	86	116	131	247	104	40	50	193	349.5	170	M10	20	151	150	P	35	A					
50/140-3/2	50	340	86	116	131	247	104	40	50	217	390	170	M10	20	160	150	P	40	A					
50/150-4/2	50	340	86	116	131	247	104	40	50	232	423	170	M10	20	168	150	P	47	A					
50/155-4/2	50	340	105	102	119	232	140	130	40	232	463	150	M10	20	168	150	D	60	A					
50/165-5.5/2	50	340	103	120	138	279	164	143	48	279	526	170	M10	20	188	150	D	76	A					
50/175-5.5/2	50	340	103	120	138	279	164	143	48	279	526	170	M10	20	188	150	D	76	A					
50/175-7.5/2	50	340	103	120	138	279	164	143	48	279	526	170	M10	20	188	150	D	84	A					
50/185-7.5/2	50	440	120	145	150	295	160	170	70	279	521	190	M10	20	188	100	D	86	A					
65/115-1.5/2	65	340	93	100	118	218	104	40	50	193	360.5	170	M10	20	151	150	P	34	A					
65/120-2.2/2	65	340	93	119	138	257	135	40	55	193	356	170	M10	20	151	150	P	37	A					
65/130-3/2	65	340	93	119	138	257	135	40	55	217	396	170	M10	20	160	150	P	42	A					
65/140-4/2	65	340	93	119	138	257	135	40	55	232	429	170	M10	20	168	150	P	49	A					
65/145-5.5/2	65	340	120	112	134	279	140	140	60	279	531	160	M12	20	188	150	D	78	A					
65/155-5.5/2	65	340	120	112	134	279	140	140	60	279	531	160	M12	20	188	150	D	78	A					
65/155-7.5/2	65	340	120	112	134	279	140	140	60	279	531	160	M12	20	188	150	D	86	A					
65/165-5.5/2	65	430	110	126	146	279	180	195	60	279	532	215	M12	20	188	150	D	80	A					
65/175-5.5/2	65	430	110	126	146	279	180	195	60	279	532	215	M12	20	188	150	D	81	A					
65/175-7.5/2	65	430	110	126	146	279	180	195	60	279	532	215	M12	20	188	150	D	89	A					
80/115-2.2/2	80	360	100	110	135	245	135	40	55	193	378	180	M10	20	151	150	P	40	A					
80/130-3/2	80	360	105	125	153	278	135	40	55	217	402	180	M10	20	160	150	P	46	A					
80/140-4/2	80	360	105	125	153	278	135	40	55	232	435	180	M10	20	168	150	P	53	A					
80/145-5.5/2	80	400	105	123	151	279	180	173	57	279	548	200	M12	20	188	150	D	85	A					
80/155-7.5/2	80	400	105	123	151	279	180	173	57	279	548	200	M12	20	188	120	D	93	A					

l1 : Versiyon N için, l1 boyu kullanılan spesifik motorun ölçülerine bağlıdır.

*çark malzemesi : D dökme demir, P plastik

Wilo-VeroLine-IPL Ölçüler, Ağırlıklar

Flanş Ölçüleri

Wilo-VeroLine-IPL ...	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
100...	100	220	156	180	8 x 19

EN 1902-2'ye göre PN16 delikli