

Pioneering for You

wilo

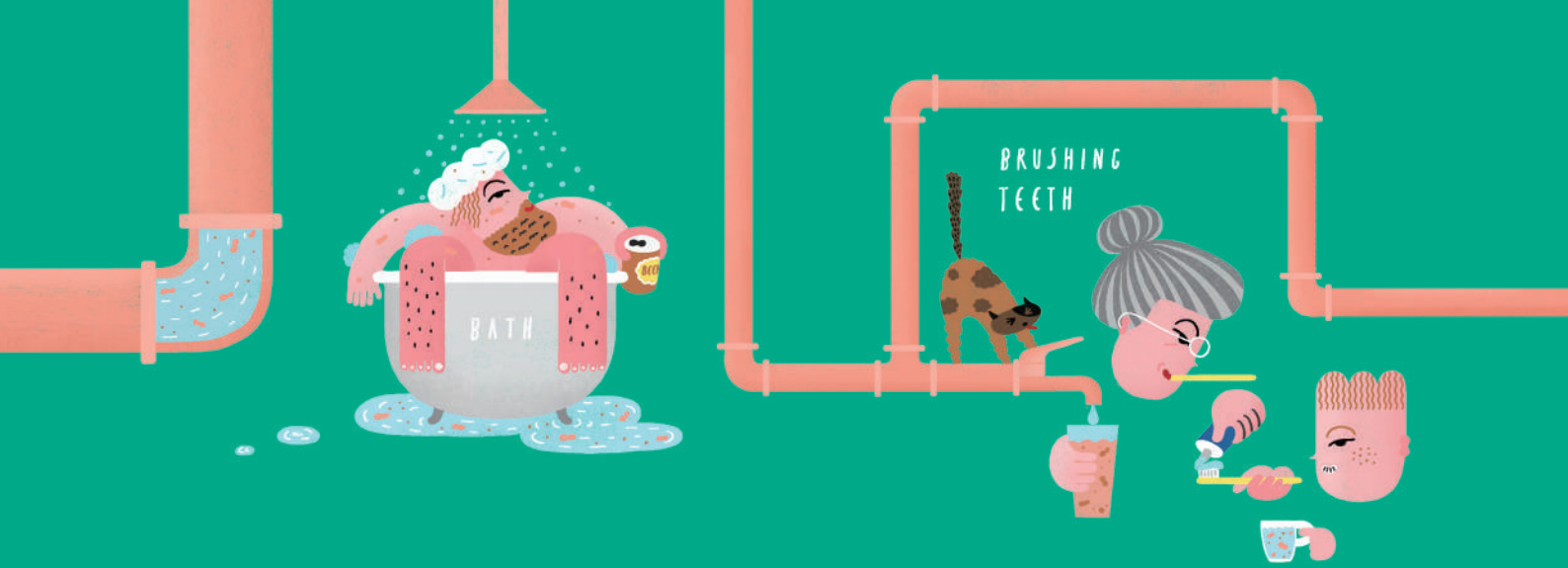
제품 카탈로그

## In-Line Pumps

Pumps and Pump Systems for  
Building Services, Industry and Water Management



윌로펌프(주)



# 깨끗한 펌프

# 맑은 물

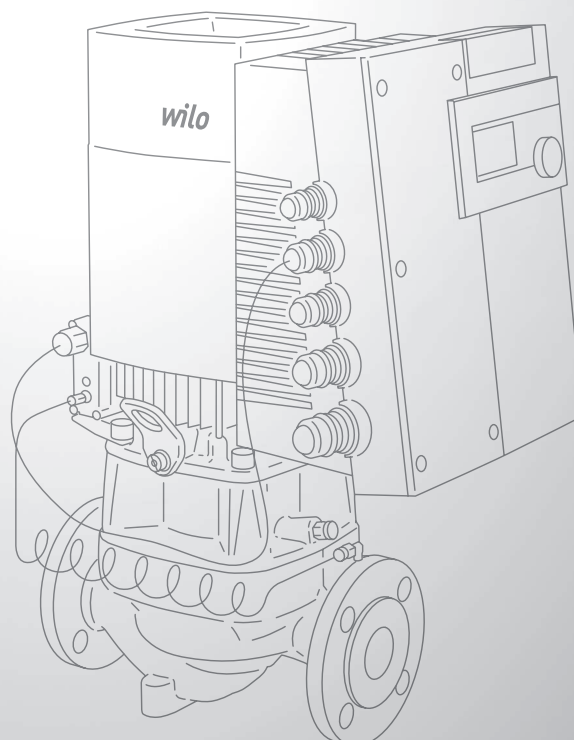
FRESH WATER!

우리 모두를 위한 맑은 물.  
깨끗한 펌프를 사용해야 얻을 수 있습니다.



# In-Line Pumps

Stratos GIGA .....	04
Stratos PICO .....	21
IL .....	24
IL-I .....	48
IL-E/DL-E .....	54
IPL/TOP-S/TOP-Z .....	58
IP-E/DP-E .....	64
PIL .....	66
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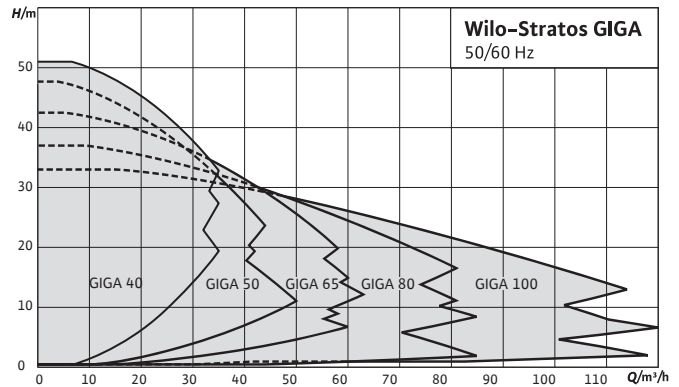


# In-Line Pumps

## Stratos GIGA Series

### Stratos GIGA Series

제품 소개



### 모델명

예) Stratos GIGA 40/1-51/4.5

- Stratos: 고효율 전자제어 펌프
- GIGA: 인라인펌프
- 40: 흡/토출 구경(mm)
- 1-51: 양정 범위(m)
- 4.5: 모터 동력 (kW)

### 적용범위

- 냉난방 및 응축수 시스템과 산업용, 상업용, 농업용 액체 이송 장치에 적용
- 냉수, 냉각수, 온수, 글리콜 혼합용수 (20% 미만), 열교환 용수

### 기술자료

- 허용유체  
VDI 2035에 적합한 유체  
냉수/냉각수, 열 교환용수  
글리콜 혼합용수 (20% 미만)
- 성능  
속도범위: 500~5130rpm(각 모델 참조)  
온도범위: -20°C ~ +140°C(글리콜 혼합용수의 온도 ≤ 40°C)
- 온도에 따른 압력범위: 13bar에서 +140°C까지  
16bar에서 +120°C까지
- 주위온도: 최대 +40°C
- 현장설치  
파이프에 직접 설치  
베이스 플레이트 장착설치 (option사양)
- 플랜지  
PN16(EN1092-2)

### • 주 전원

- 3~380V, 60Hz
- 3~400V, 50Hz

### • 모터

- 종류: EC motor
- 모터 보호장치 내장
- 효율등급: IE4급 이상(IEC TS 60034-34 ed.1 기준)
- 보호등급: IP55
- 절연등급: F종

### • 전자파 보호 규정

EN 61800-3

### • 재질구성

- 펌프케이싱 Gray Cast Iron + Cataphoresis Coating
- 임펠러 Engineering plastic
- 랜턴 Gray Cast Iron + Cataphoresis Coating
- 샤프트 Stainless Steel
- 미캐니컬 실 Sic/Carbon-EPDM

### 특장점

- Δp-c 유량변화에 따른 일정한 압력제어
- Δp-v 부하변화에 따른 유량 및 압력제어
- DDC 제어센서에 의한 원격제어
- 수동 운전 기능
- 운전 및 펌프 상태 표시 기능
- IR 제어기에 의한 리모콘 기능
- 운전 상태 및 알람 상태 점점 출력 기능
- 입력 단자에 아날로그 신호 제어 기능 (0-10V, 2-10V, 0-20mA, 4-20mA)
- WILO-IF 모듈에 따른 더블 펌프 제어 및 BMS(Building Management System) 기능

# In-Line Pumps

Stratos GIGA Series

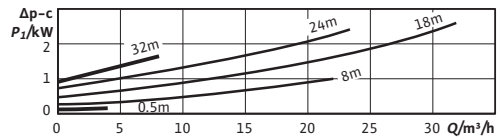
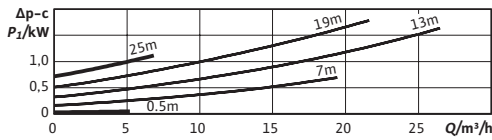
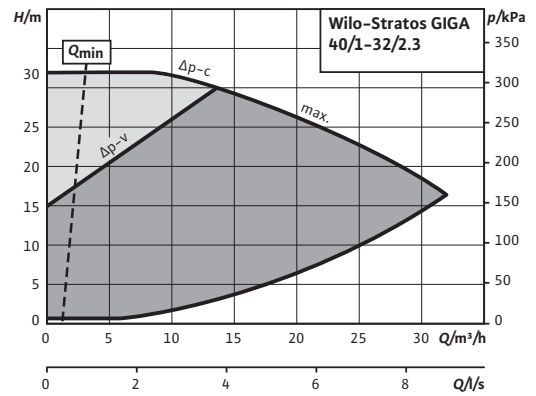
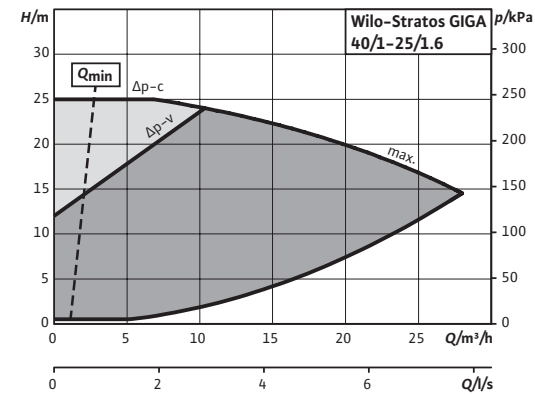
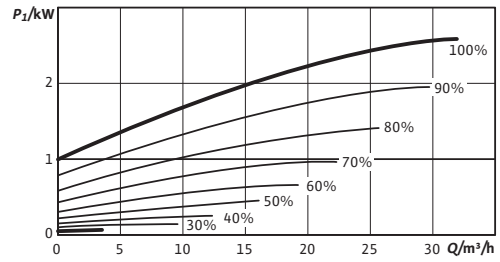
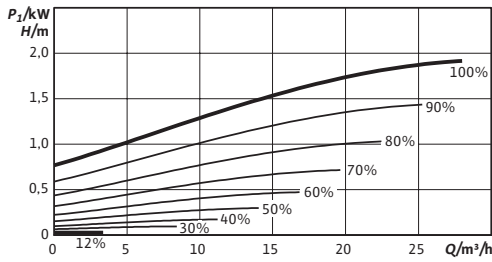
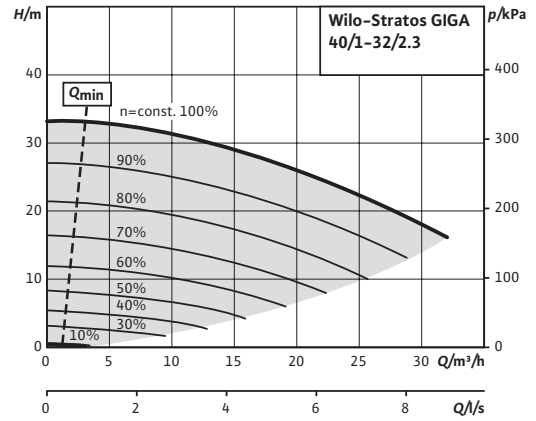
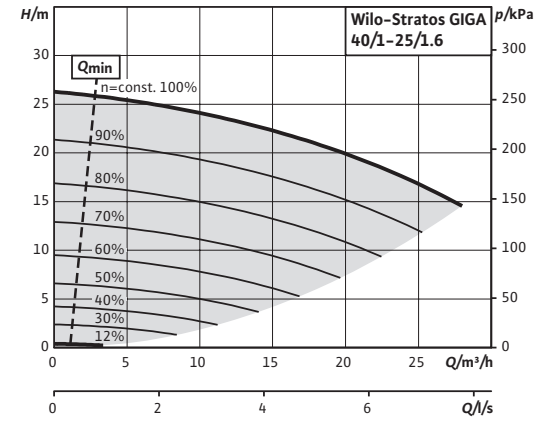


## Stratos GIGA Series

성능곡선

### Stratos GIGA 40/1-25/1.6

### Stratos GIGA 40/1-32/2.3



# In-Line Pumps

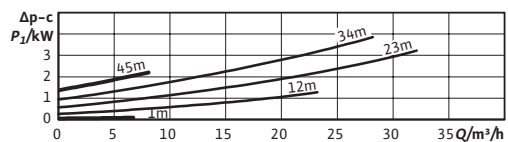
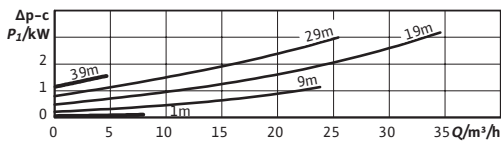
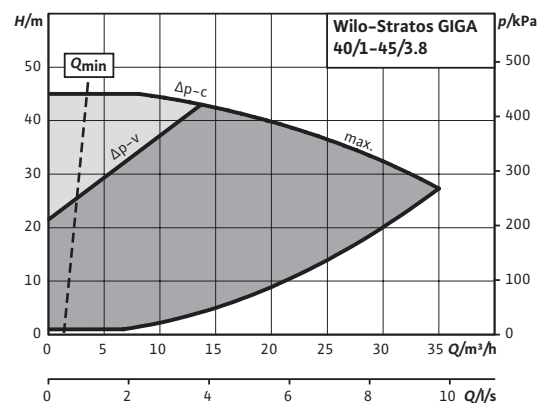
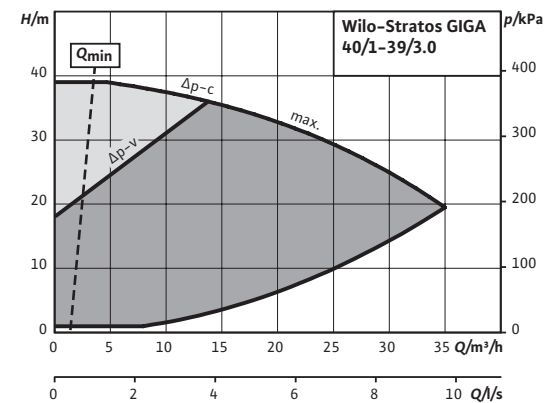
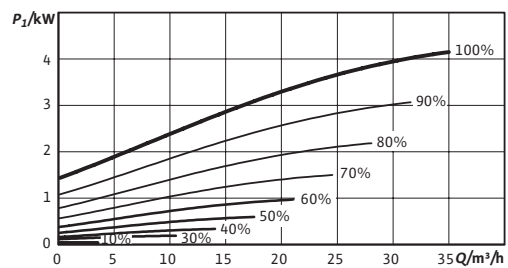
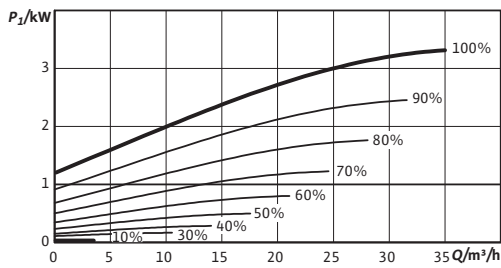
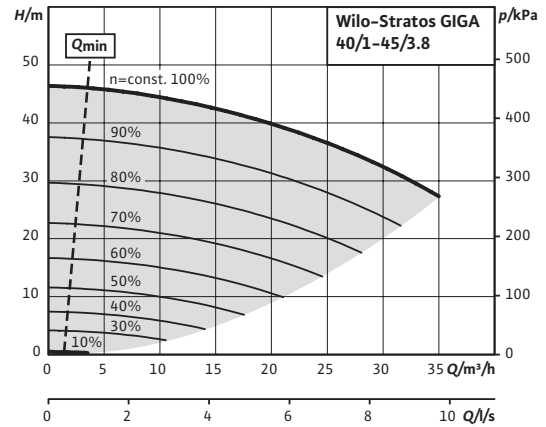
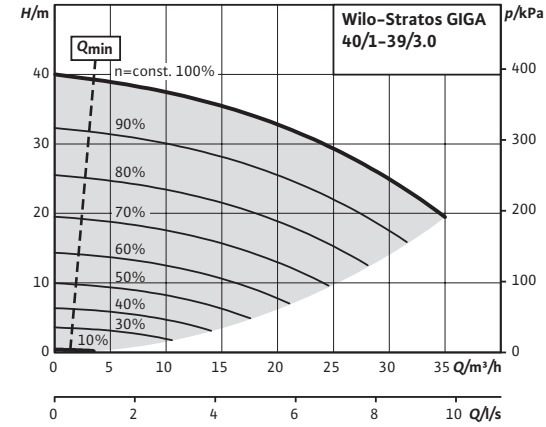
Stratos GIGA Series

Stratos GIGA Series

성능곡선

Stratos GIGA 40/1-39/3.0

Stratos GIGA 40/1-45/3.8



# In-Line Pumps

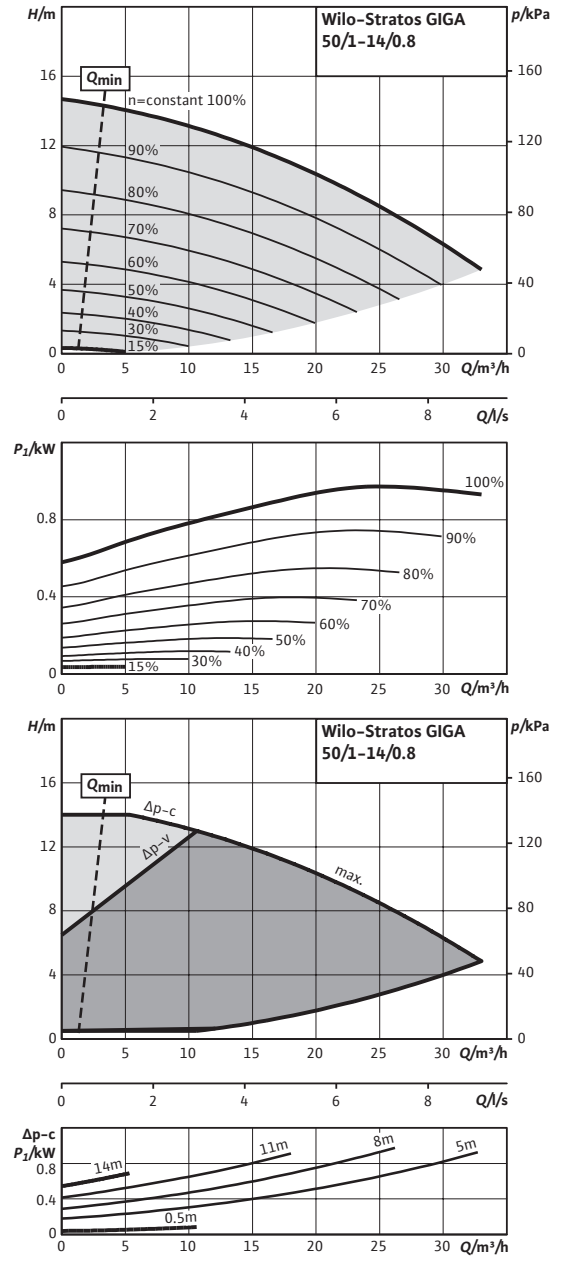
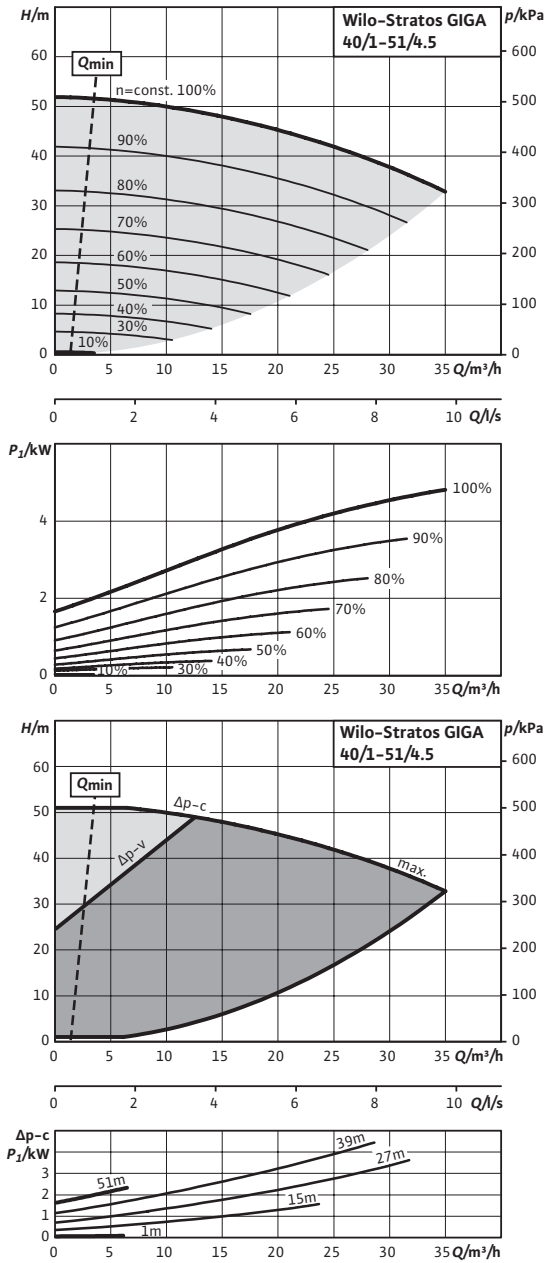
Stratos GIGA Series



## Stratos GIGA Series 성능곡선

### Stratos GIGA 40/1-51/4.5

### Stratos GIGA 50/1-14/0.8



In-Line Pumps



# In-Line Pumps

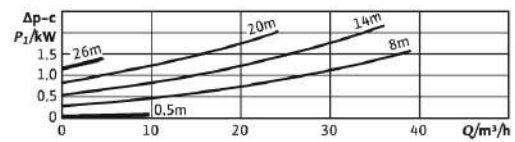
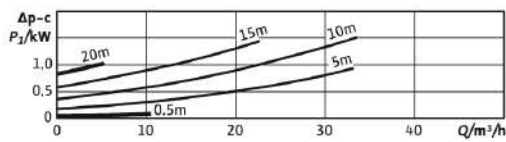
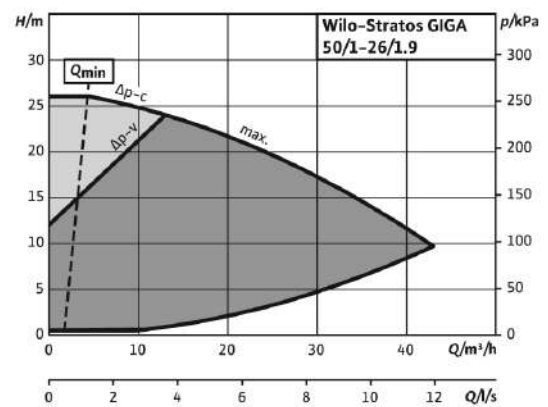
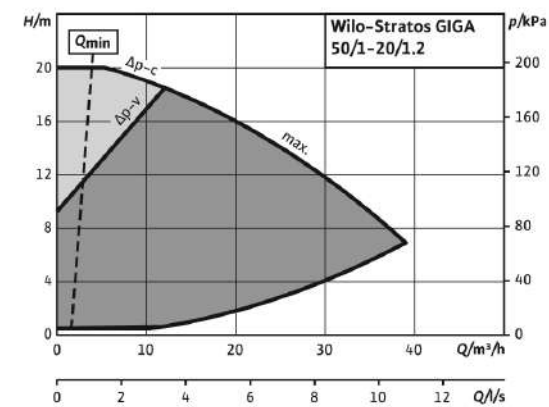
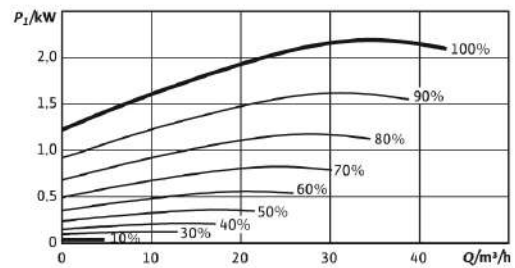
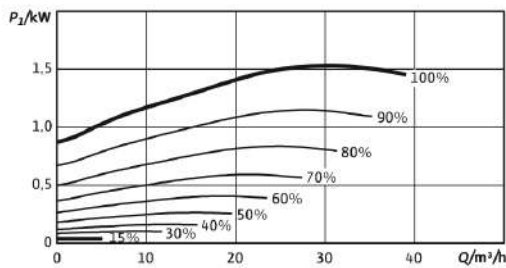
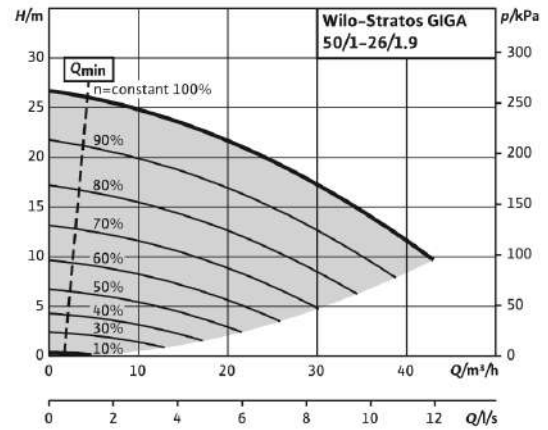
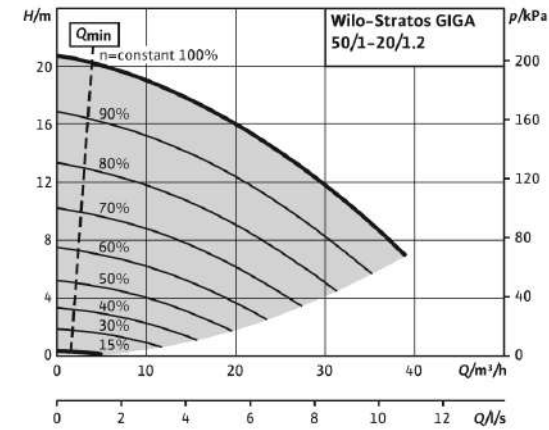
Stratos GIGA Series

Stratos GIGA Series

성능곡선

Stratos GIGA 50/1-20/1.2

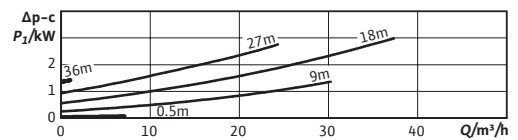
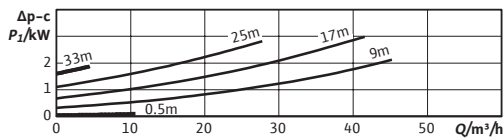
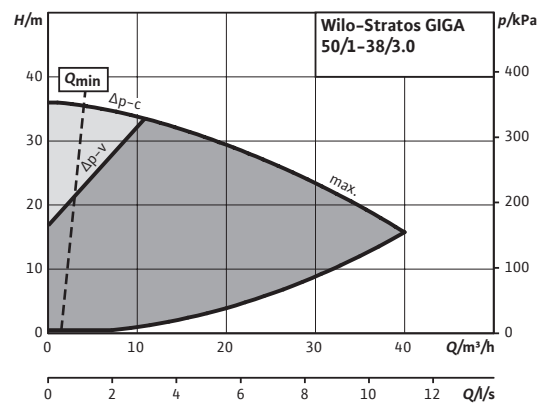
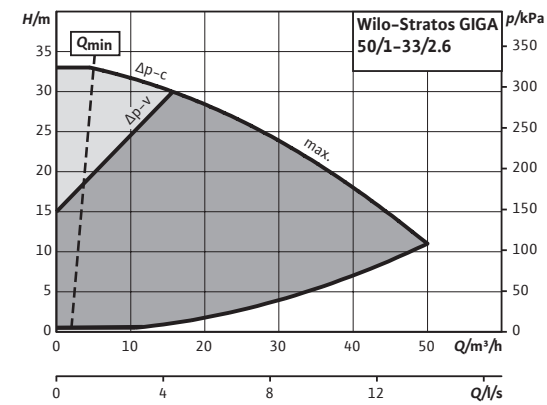
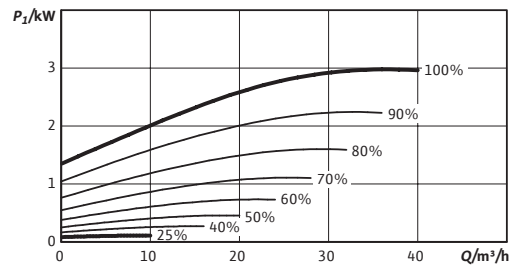
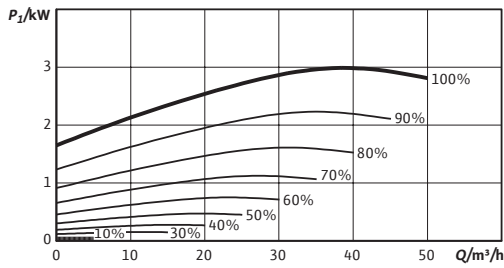
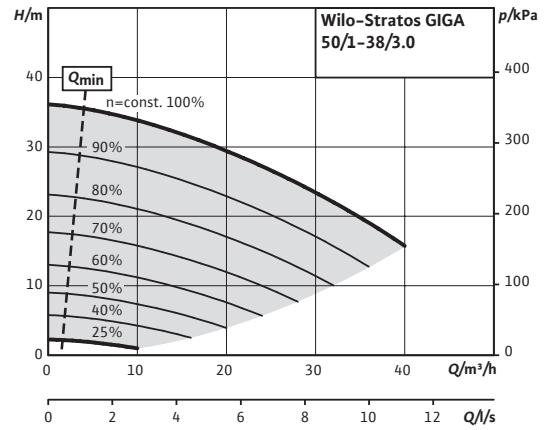
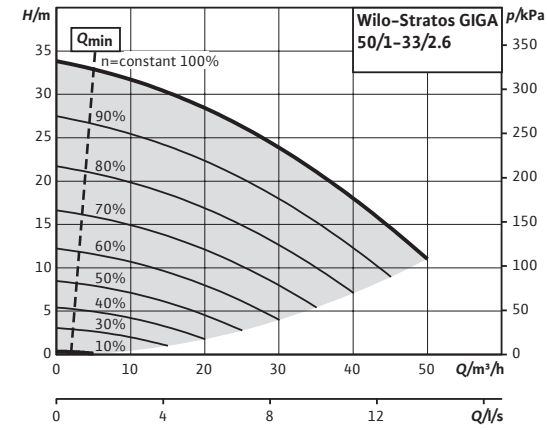
Stratos GIGA 50/1-26/1.9





#### Stratos GIGA 50/1-33/2.6

#### Stratos GIGA 50/1-38/3.0



# In-Line Pumps

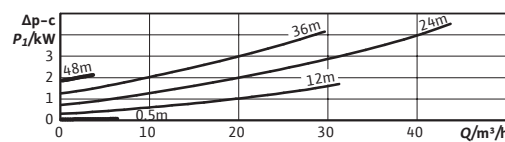
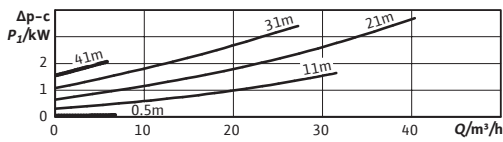
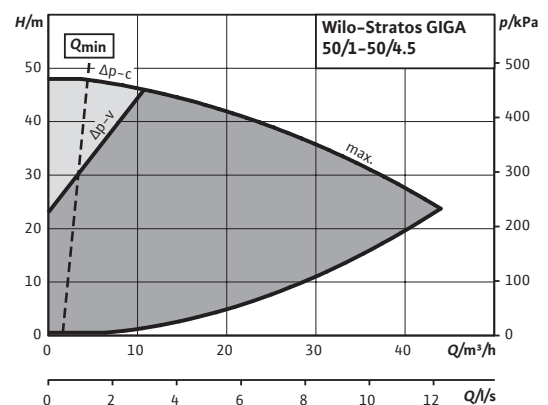
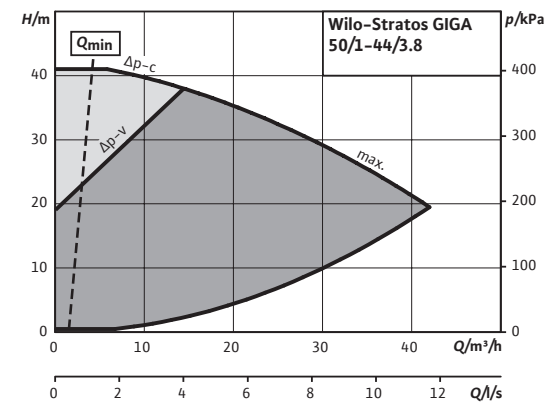
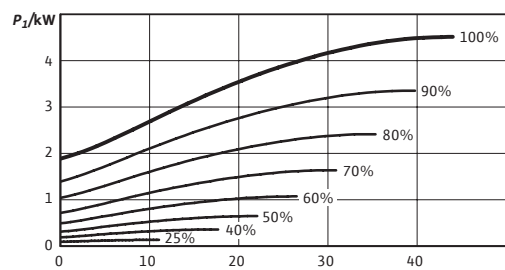
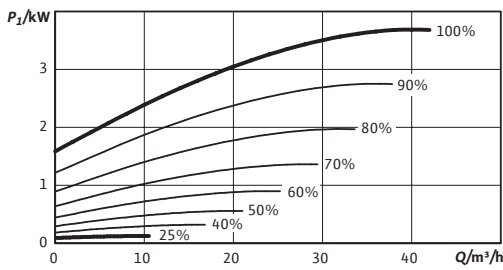
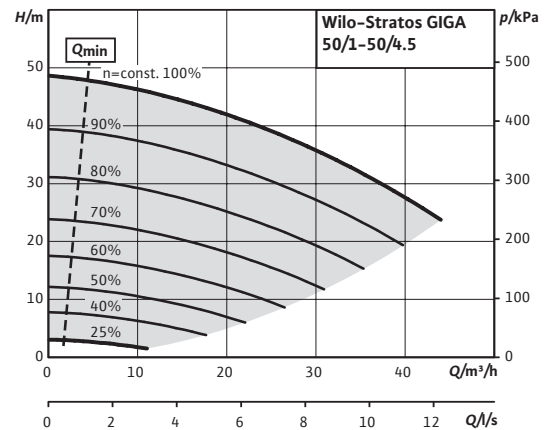
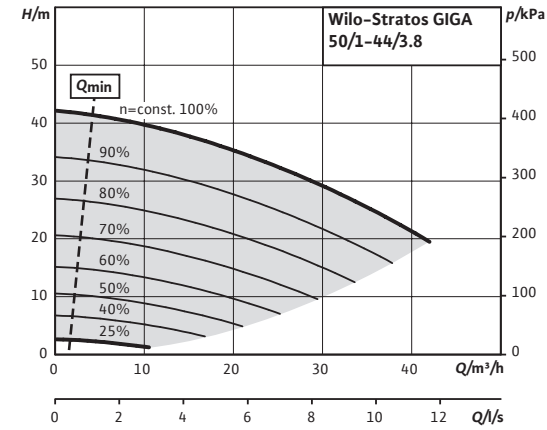
## Stratos GIGA Series

### Stratos GIGA Series

성능곡선

#### Stratos GIGA 50/1-44/3.8

#### Stratos GIGA 50/1-50/4.5



# In-Line Pumps

Stratos GIGA Series

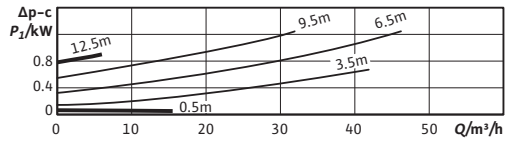
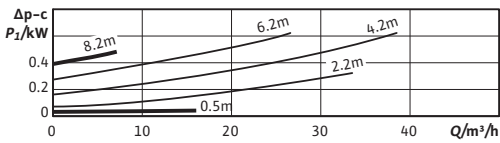
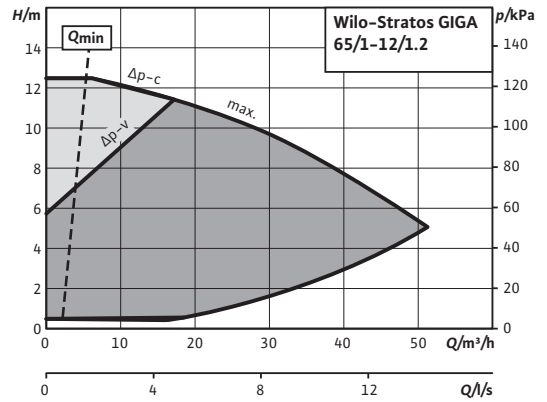
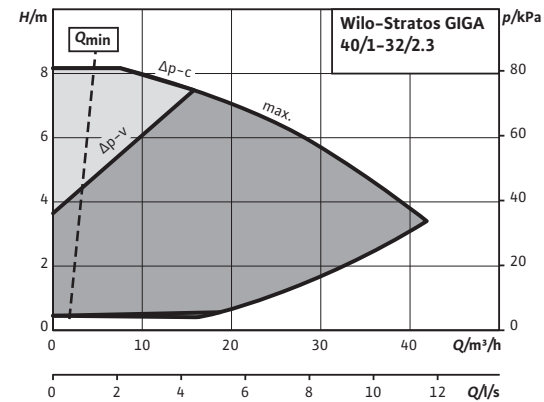
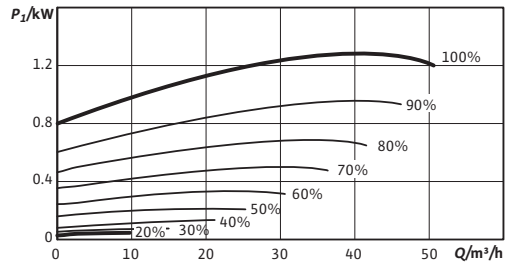
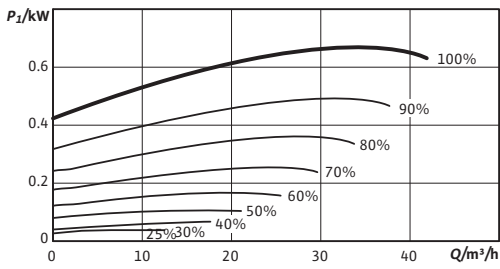
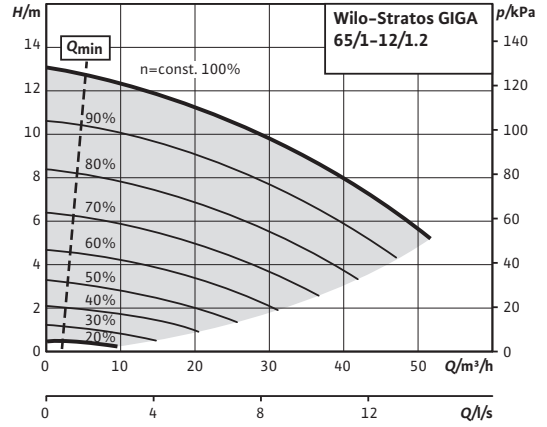
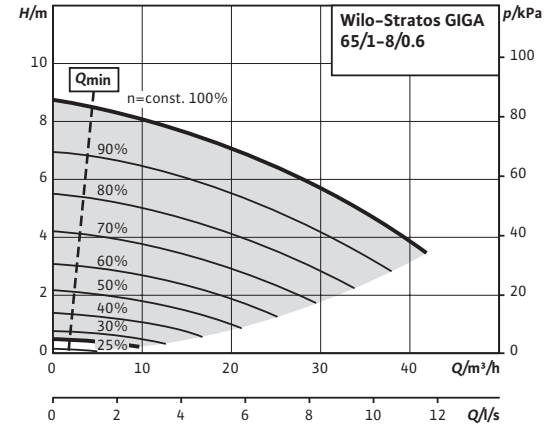


Stratos GIGA Series

성능곡선

## Stratos GIGA 65/1-8/0.6

## Stratos GIGA 65/1-12/1.2



# In-Line Pumps

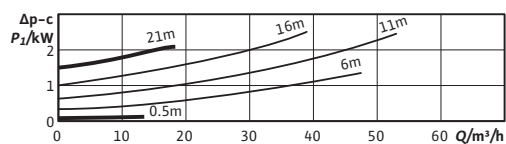
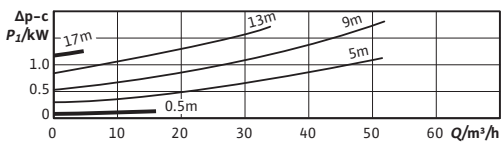
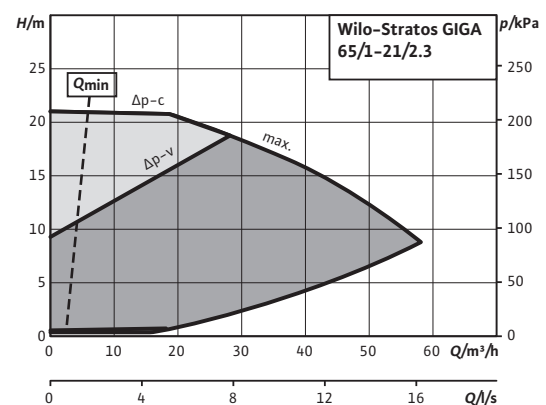
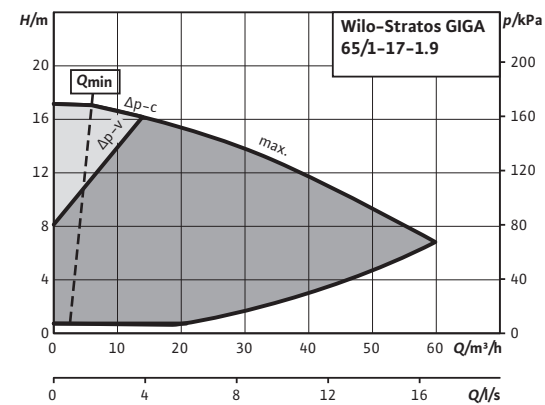
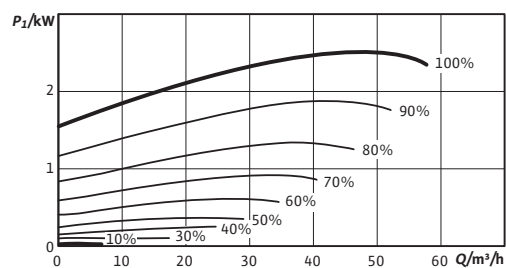
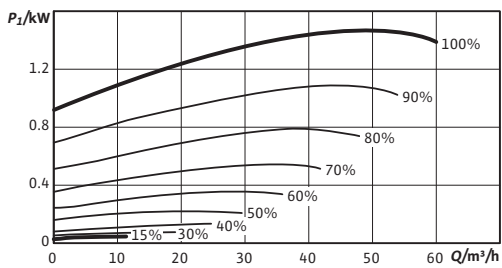
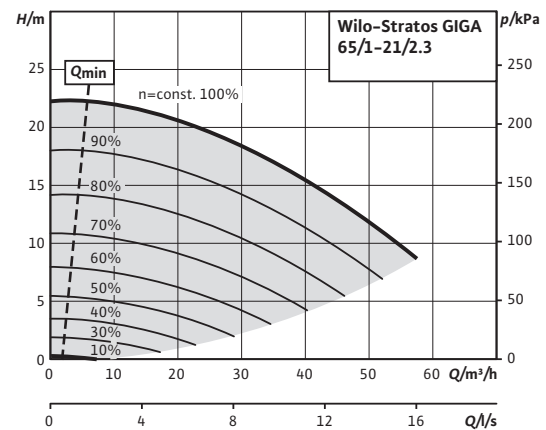
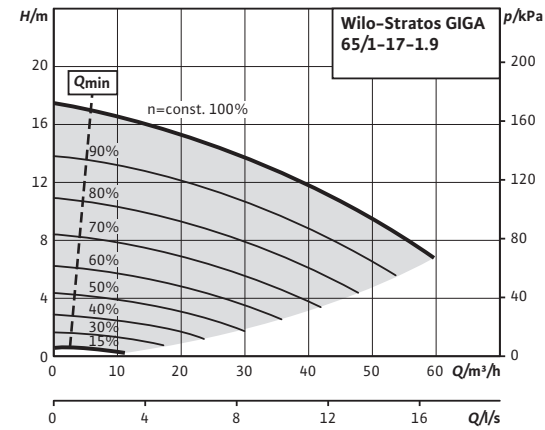
## Stratos GIGA Series

### Stratos GIGA Series

성능곡선

#### Stratos GIGA 65/1-17/1.9

#### Stratos GIGA 65/1-21/2.3



# In-Line Pumps

## Stratos GIGA Series

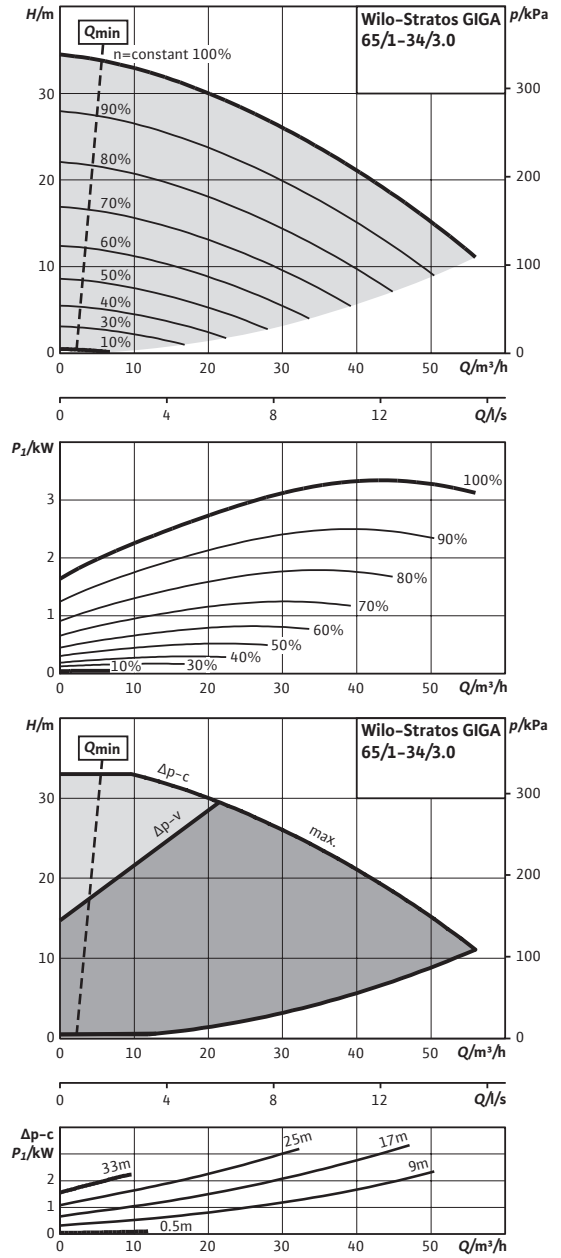
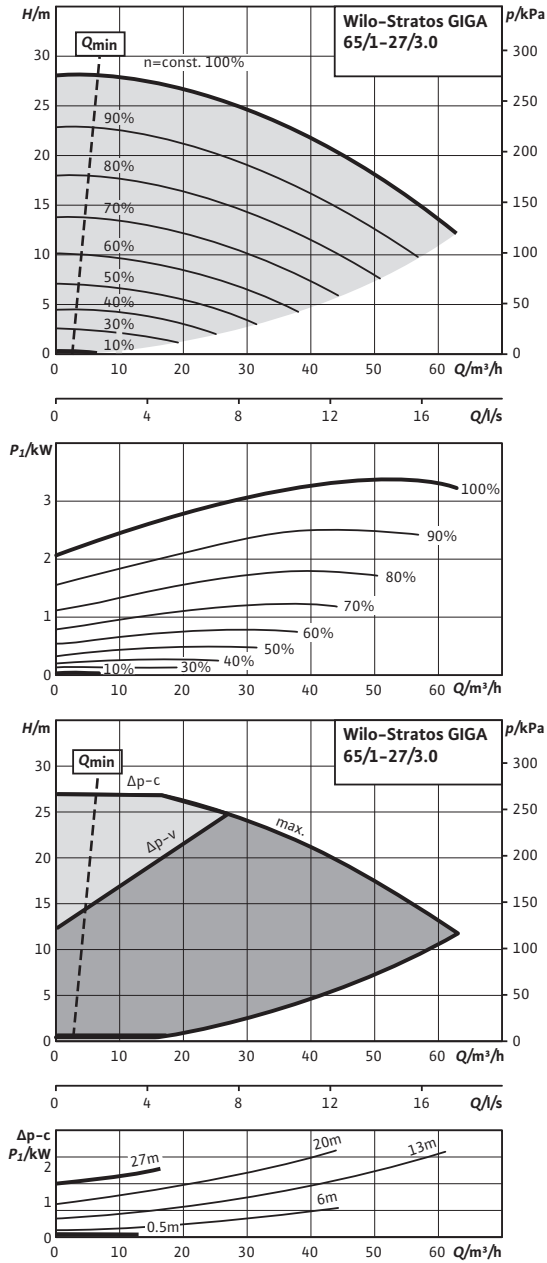


### Stratos GIGA Series

성능곡선

#### Stratos GIGA 65/1-27/3.0

#### Stratos GIGA 65/1-34/3.0



# In-Line Pumps

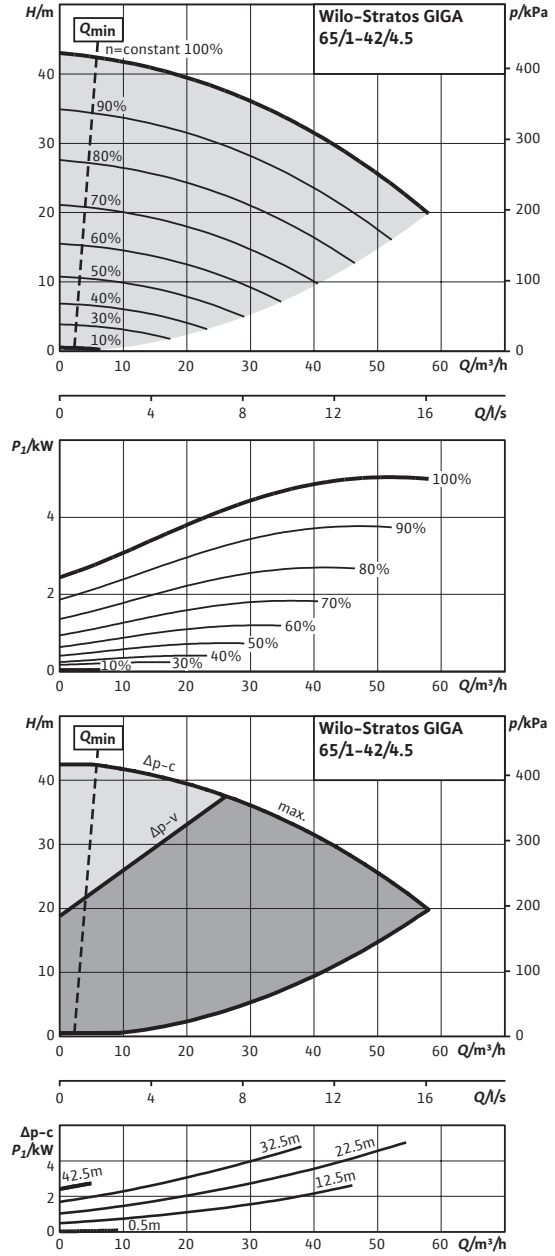
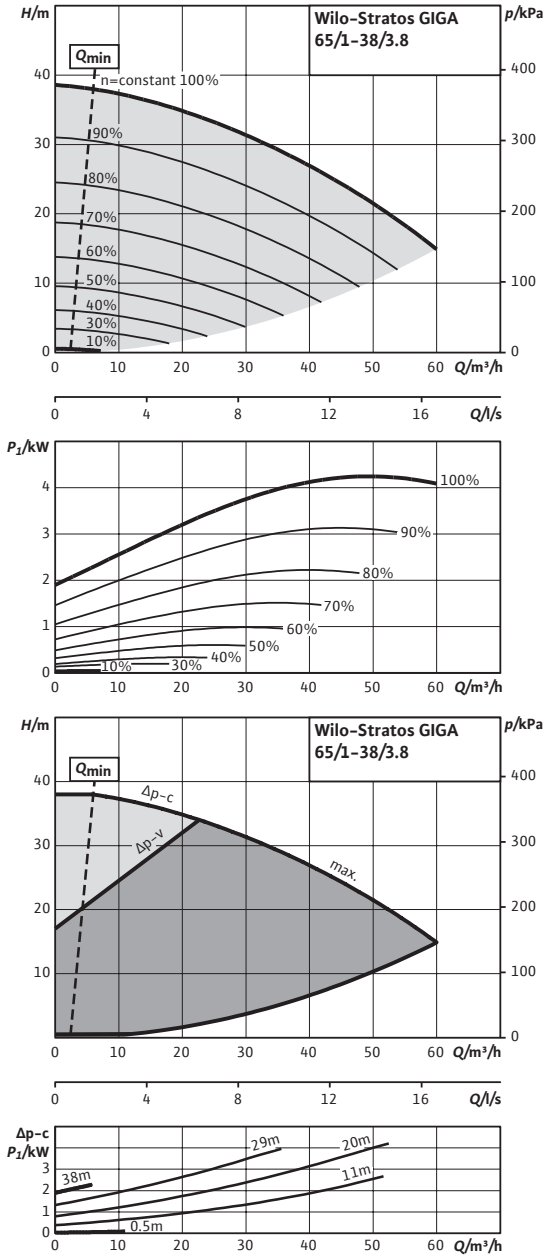
## Stratos GIGA Series

### Stratos GIGA Series

성능곡선

#### Stratos GIGA 65/1-38/3.8

#### Stratos GIGA 65/1-42/4.5



# In-Line Pumps

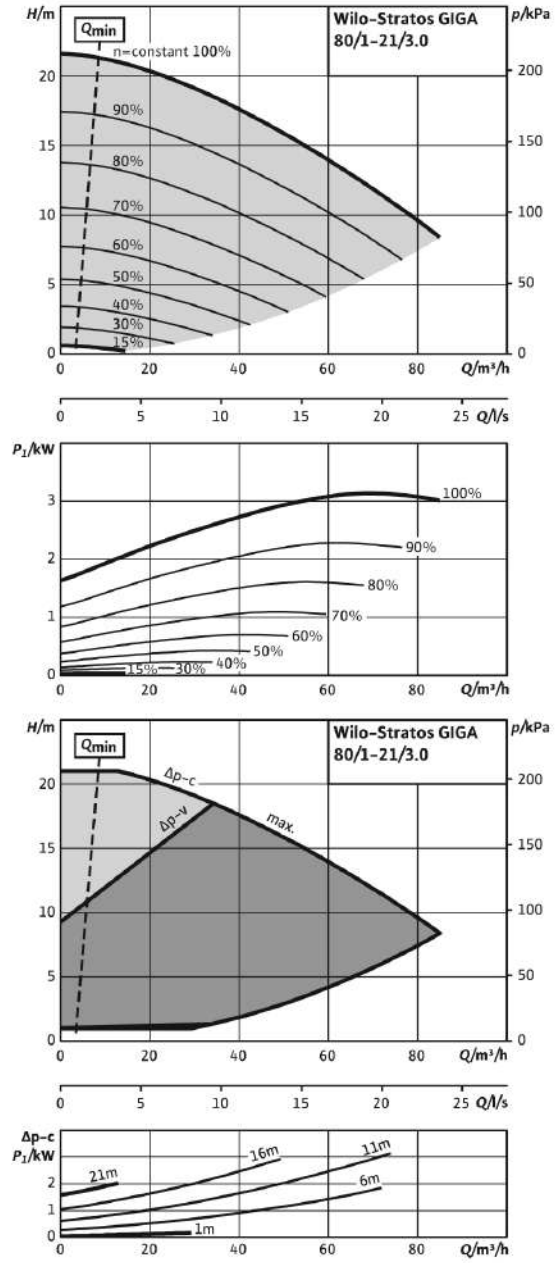
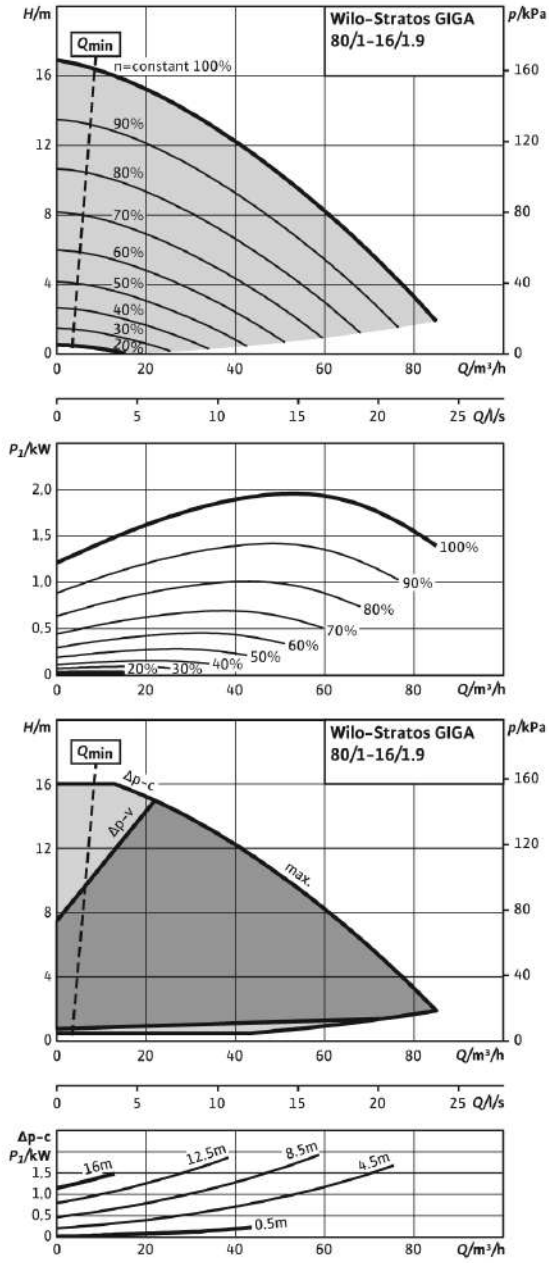
Stratos GIGA Series

wilo

Stratos GIGA Series 성능곡선

Stratos GIGA 80/1-16/1.9

Stratos GIGA 80/1-21/3.0



In-Line Pumps



# In-Line Pumps

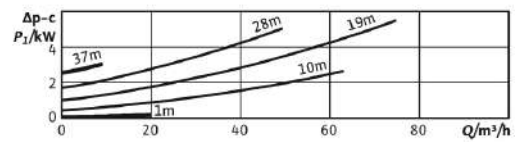
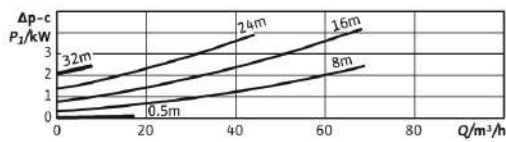
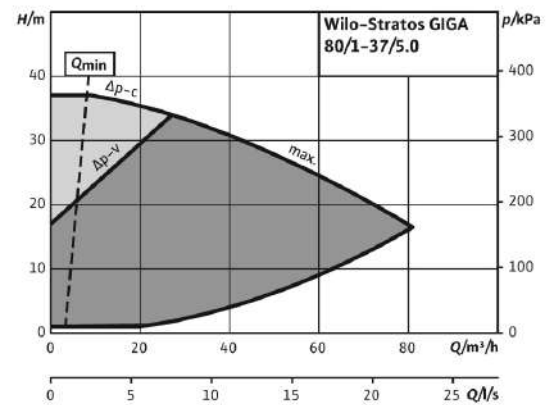
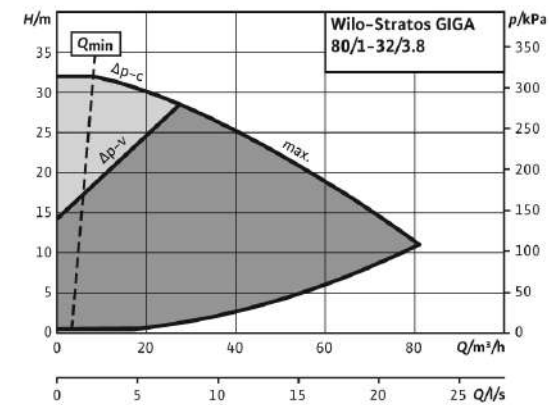
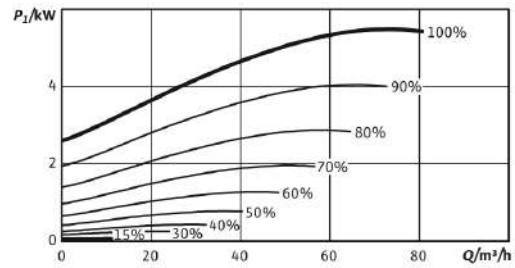
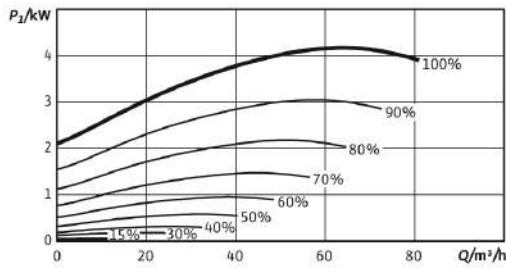
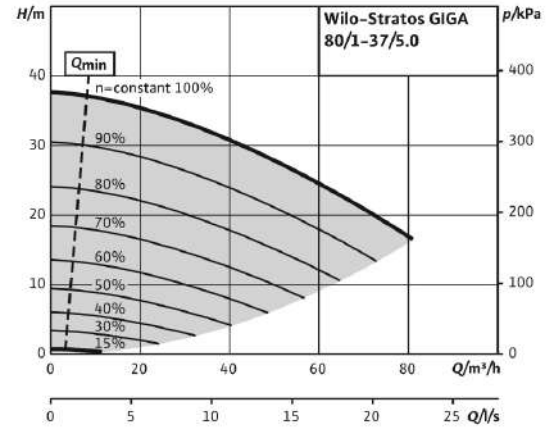
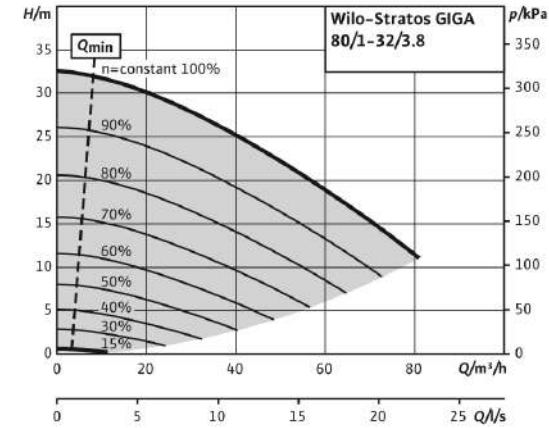
## Stratos GIGA Series

### Stratos GIGA Series

성능곡선

#### Stratos GIGA 80/1-32/3.8

#### Stratos GIGA 80/1-37/5.0



# In-Line Pumps

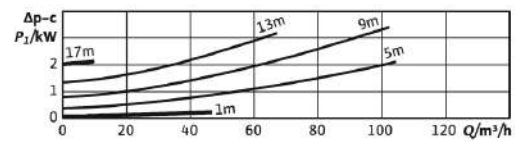
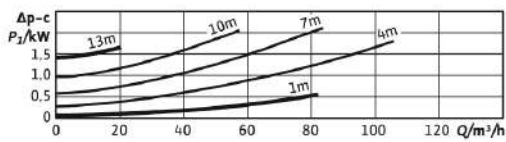
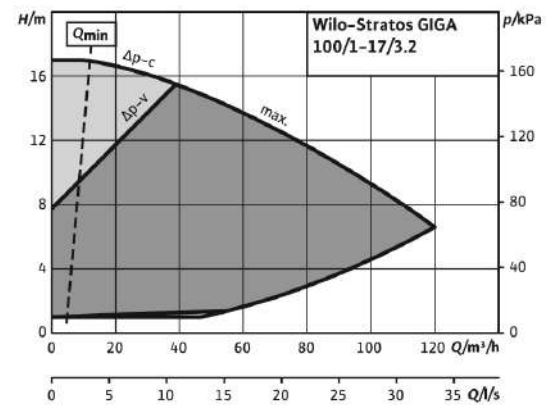
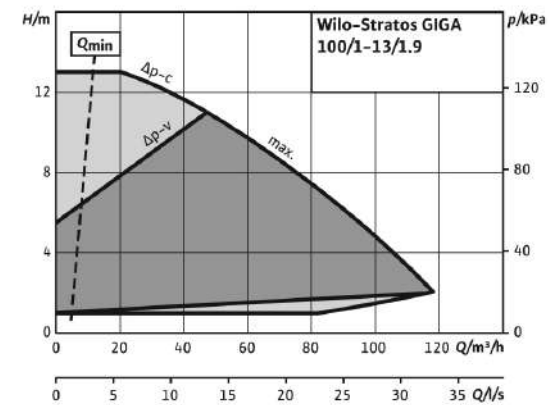
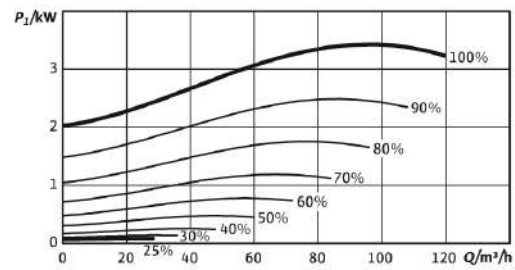
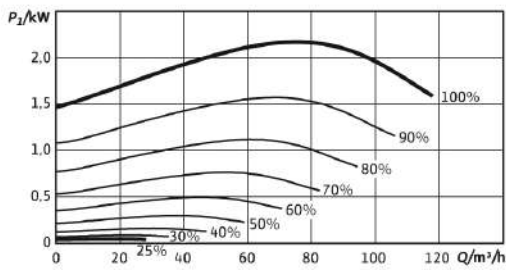
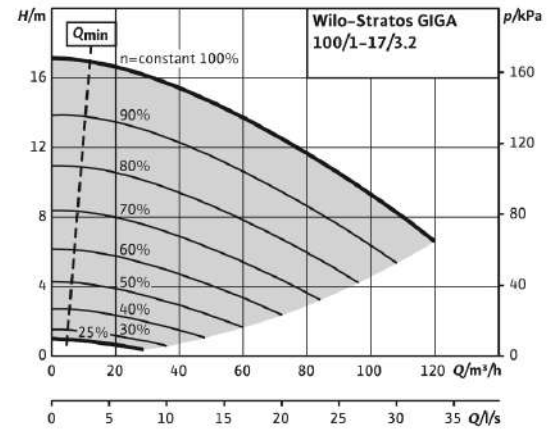
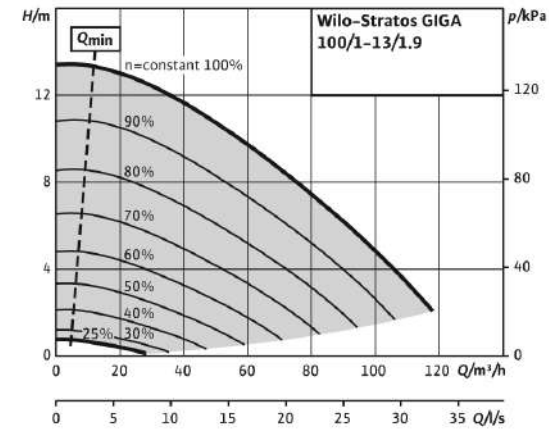
Stratos GIGA Series



## Stratos GIGA Series 성능곡선

Stratos GIGA 100/1-13/1.9

Stratos GIGA 100/1-17/3.2



# In-Line Pumps

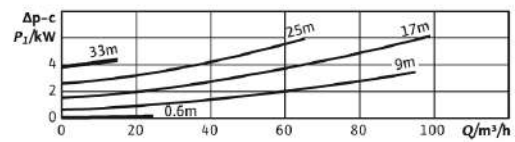
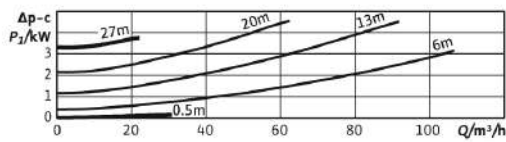
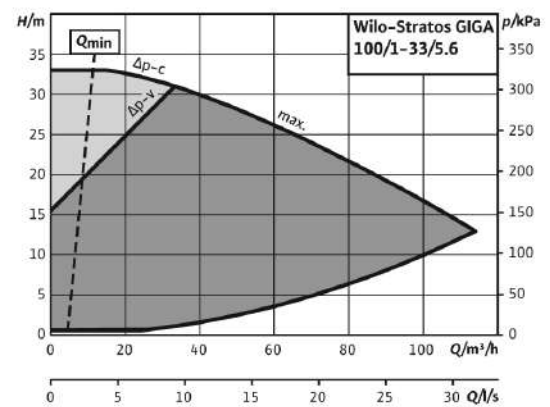
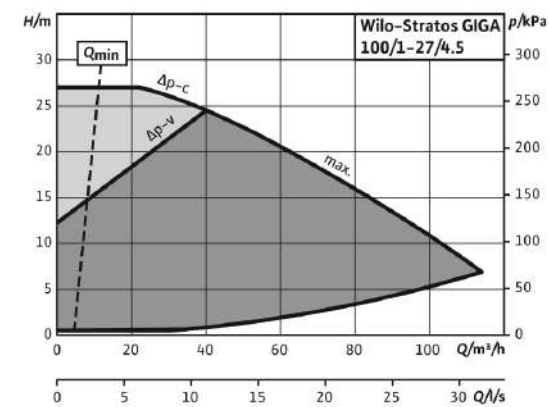
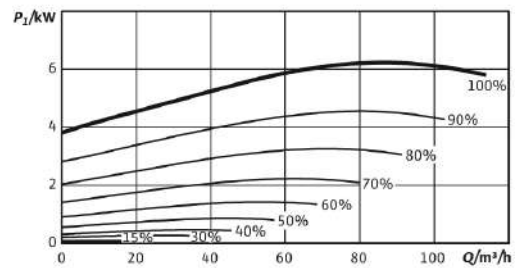
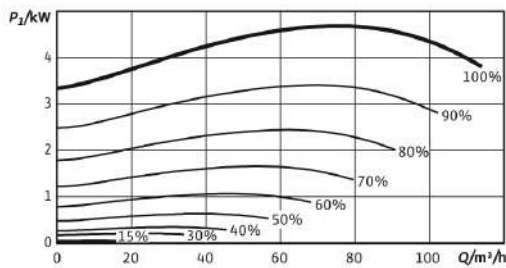
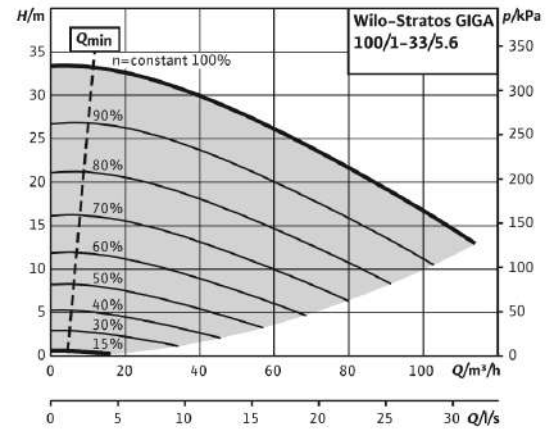
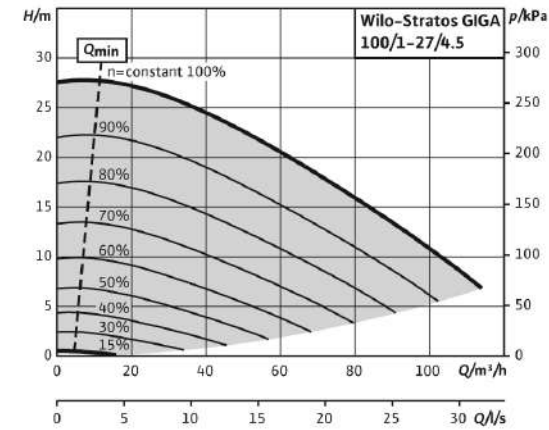
## Stratos GIGA Series

### Stratos GIGA Series

성능곡선

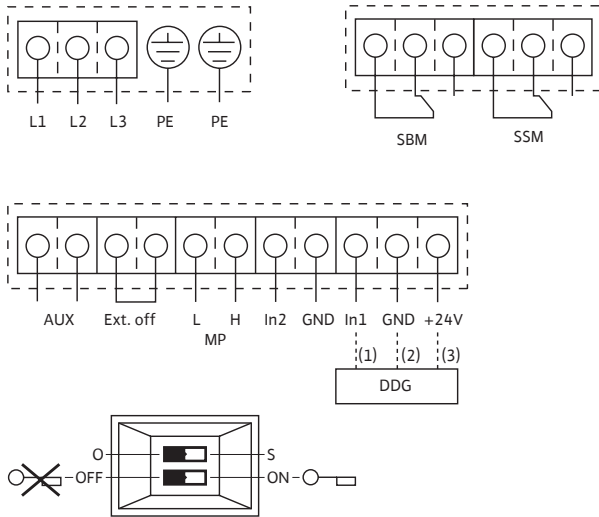
#### Stratos GIGA 100/1-27/4.5

#### Stratos GIGA 100/1-33/5.6



### Stratos GIGA Series 결선도 및 모터 Data

#### 결선도



- L1, L2, L3: Mains connection: 3~400 VAC/50 Hz; 3~380 VAC/60 Hz
  - PE: Protective conductor connection
  - DDG: Connection for differential pressure sensor
  - In1 (1): Actual value input 0-10 V/0-20 mA; 2-10 V/4-20 mA
  - GND (2): Ground connection for In1 and In2
  - + 24 V (3): DC voltage output for an external consumer/sensor. Max load 60 mA
  - In2: Setpoint input 0-10 V/0-20 mA; 2-10 V/4-20 mA
  - MP: Multi-pump, interface for dual pump management
  - Ext. off: "Overriding Off" control input  
The pump can be switched on or off via an external, potential-free contact (24 VDC/10 mA).
  - SBM:\* Potential-free collective run signal (changeover contact according to VDI 3814)
  - SSM:\* Potential-free collective fault signal (changeover contact according to VDI 3814)
  - aux: External pump cycling (with dual pump operation only). Pump cycling can be performed using an external, potential-free contact (24 VDC/10 mA)
  - DIP switch: 1: Switchover between operation (O) and service mode (S)  
2: Activate/deactivate the menu for access disable
  - Option: IF-Module for connection to building automation
- \* Load capacity of contacts for SBM and SSM:  
min.: 12 VDC/10 mA  
max.: 250 VAC/1 A

#### 모터 Data

Model	Nominal Motor Power $P_2$ (kW)	Speed $n$ (rpm)	Maximum power consumption $P_1$ (kW)	Nominal current (approx.) $I(A)$ ; 3~400V
Stratos GIGA 40/1-25/1.6	1.6	500 - 4,000	1.9	3.6
Stratos GIGA 40/1-32/2.3	2.4	500 - 4,500	2.6	4.7
Stratos GIGA 40/1-39/3.0	3.0	500 - 4,900	3.3	5.6
Stratos GIGA 40/1-45/3.8	3.8	500 - 4,850	4.1	6.6
Stratos GIGA 40/1-51/4.5	4.4	500 - 5,130	4.8	7.7
Stratos GIGA 50/1-14/0.8	0.8	500 - 3,300	1.0	1.6
Stratos GIGA 50/1-20/1.2	1.3	500 - 3,920	1.5	2.4
Stratos GIGA 50/1-26/1.9	1.9	500 - 4,450	2.1	3.3
Stratos GIGA 50/1-33/2.6	2.6	500 - 5,000	3.0	5.4
Stratos GIGA 50/1-38/3.0	2.6	500 - 4,500	3.0	5.5
Stratos GIGA 50/1-44/3.8	3.1	500 - 4,850	3.7	6.6
Stratos GIGA 50/1-50/4.5	4.2	500 - 5,110	4.5	7.8
Stratos GIGA 65/1-8/0.6	0.6	500 - 2,180	0.7	1.3
Stratos GIGA 65/1-12/1.2	1.1	500 - 2,680	1.3	2.1
Stratos GIGA 65/1-17/1.9	1.7	500 - 3,100	1.9	2.9
Stratos GIGA 65/1-21/2.3	2.3	500 - 4,200	2.6	4.7
Stratos GIGA 65/1-27/3.0	3.1	500 - 4,700	3.5	6.4
Stratos GIGA 65/1-34/3.0	3.1	500 - 4,500	3.4	6.3
Stratos GIGA 65/1-38/3.8	3.8	500 - 4,500	4.3	7.4
Stratos GIGA 65/1-42/4.5	4.6	500 - 4,800	5.1	8.6
Stratos GIGA 80/1-16/1.9	1.8	500 - 2,850	2.0	3.8
Stratos GIGA 80/1-21/3.0	2.9	500 - 2,950	3.2	5.8
Stratos GIGA 80/1-32/3.8	3.9	500 - 3,700	4.2	7.6
Stratos GIGA 80/1-37/5.0	5.0	500 - 3,750	5.5	9.4
Stratos GIGA 100/1-13/1.9	2.0	500 - 2,100	2.2	4.2
Stratos GIGA 100/1-17/3.2	3.2	500 - 2,160	3.4	6.3
Stratos GIGA 100/1-27/4.5	4.3	500 - 3,600	4.8	8.2
Stratos GIGA 100/1-33/5.6	5.6	500 - 3,700	6.3	10.4

\* Please observe pump name plate data.

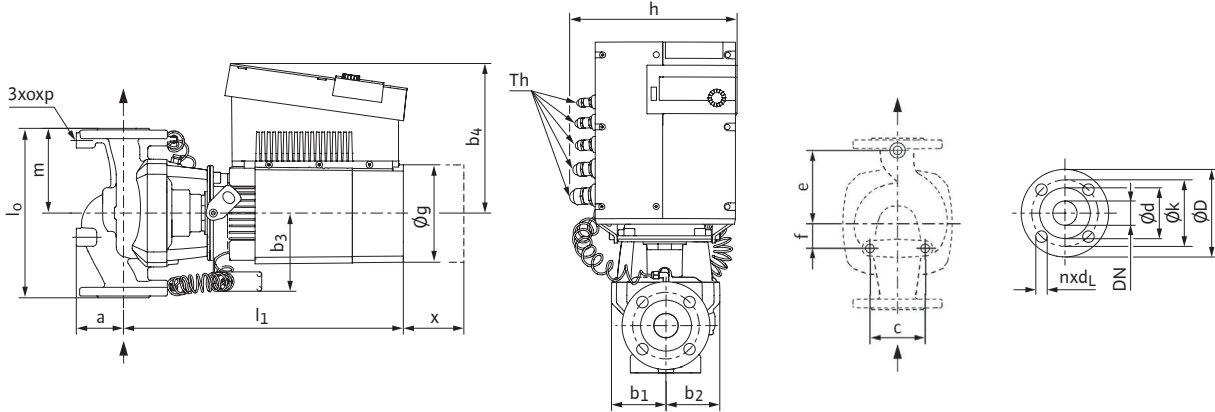
# In-Line Pumps

## Stratos GIGA Series

### Stratos GIGA Series

외형도 및 치수

#### 외형도



#### 치수 및 중량

Model	Nominal flange diameter DN	Dimensions (mm)																Cable Gland Th	Weight (kg)		
		l <sub>0</sub>	a	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	b <sub>4</sub>	c	e	f	øg	h	l <sub>1</sub>	m	o	p	x				
Stratos GIGA 40/1-25/1.6	40	280	78	89	89	129	248	90	120	40	168	277	463	140	M12	20	225	2xM12	38		
Stratos GIGA 40/1-32/2.3	40	280	78	89	89	129	248	90	120	40	168	277	463	140	M12	20	225		38		
Stratos GIGA 40/1-39/3.0	40	280	78	89	89	129	248	90	120	40	168	277	463	140	M12	20	225		38		
Stratos GIGA 40/1-45/3.8	40	280	78	89	89	129	248	90	120	40	168	277	463	140	M12	20	225		38		
Stratos GIGA 40/1-51/4.5	40	280	78	89	89	129	248	90	120	40	168	277	463	140	M12	20	225		38		
Stratos GIGA 50/1-14/0.8	50	280	86	89	89	129	248	96	120	40	168	277	455	140	M12	20	225		1xM16	39	
Stratos GIGA 50/1-20/1.2	50	280	86	89	89	129	248	96	120	40	168	277	455	140	M12	20	225			39	
Stratos GIGA 50/1-26/1.9	50	280	86	89	89	129	248	96	120	40	168	277	455	140	M12	20	225			39	
Stratos GIGA 50/1-33/2.6	50	280	86	89	89	129	248	96	120	40	168	277	455	140	M12	20	225			39	
Stratos GIGA 50/1-38/3.0	50	280	86	89	89	129	248	90	120	40	168	277	455	140	M12	20	225			39	
Stratos GIGA 50/1-44/3.8	50	280	86	89	89	129	248	90	120	40	168	277	455	140	M12	20	225			39	
Stratos GIGA 50/1-50/4.5	50	280	86	89	89	129	248	90	120	40	168	277	463	140	M12	20	225			39	
Stratos GIGA 65/1-8/0.6	65	340	104	90	115	129	248	100	150	70	168	277	456	170	M12	20	225			1xM20	44
Stratos GIGA 65/1-12/1.2	65	340	104	90	115	129	248	100	150	70	168	277	456	170	M12	20	225				44
Stratos GIGA 65/1-17/1.9	65	340	104	90	115	129	248	100	150	70	168	277	456	170	M12	20	225				44
Stratos GIGA 65/1-21/2.3	65	340	100	90	103	129	248	100	150	70	168	277	454	170	M12	20	225	43			
Stratos GIGA 65/1-27/3.0	65	340	100	90	103	129	248	100	150	70	168	277	454	170	M12	20	225	43			
Stratos GIGA 65/1-34/3.0	65	340	100	88	98	129	248	100	150	70	168	277	452	170	M12	20	225	1xM25	43		
Stratos GIGA 65/1-38/3.8	65	340	100	88	98	129	248	100	150	70	168	277	452	170	M12	20	225		43		
Stratos GIGA 65/1-42/4.5	65	340	100	88	98	129	248	100	150	70	175	277	452	170	M12	20	225		43		
Stratos GIGA 80/1-16/1.9	80	360	114	98	128	129	248	120	160	90	168	277	460	180	M12	20	225		48		
Stratos GIGA 80/1-21/3.0	80	360	114	98	128	129	248	120	160	90	168	277	460	180	M12	20	225		48		
Stratos GIGA 80/1-32/3.8	80	360	105	110	114	129	267	120	160	90	175	277	549	180	M12	20	225	55			
Stratos GIGA 80/1-37/5.0	80	360	105	110	114	129	280	120	160	90	199	277	551	180	M12	20	225	59			
Stratos GIGA 100/1-13/1.9	100	450	144	114	158	129	255	140	195	90	175	277	551	215	M12	20	225	65			
Stratos GIGA 100/1-17/3.2	100	450	144	114	158	129	255	140	195	90	175	277	551	215	M12	20	225	65			
Stratos GIGA 100/1-27/4.5	100	450	136	110	142	129	267	140	195	90	175	277	540	225	M12	20	225	65			
Stratos GIGA 100/1-33/5.6	100	450	136	110	142	129	280	140	195	90	199	277	543	225	M12	20	225	68			

#### 플랜지 규격 (EN 1092-2, PN16)

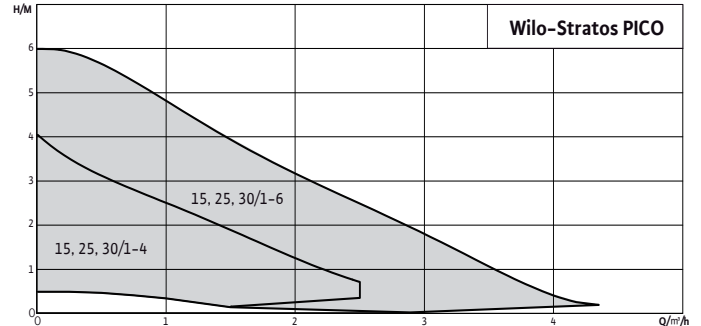
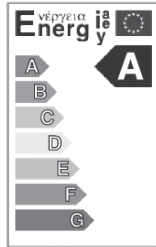
Nominal flange diameter DN	Pump flange dimensions			
	øD	ød	øk	n x ødL
	(mm)			pcs. x mm
40	150	84	110	4 x 19
50	165	99	125	4 x 19
65	185	118	145	4 x 19
80	200	132	160	8 x 19
100	220	156	180	8 x 19

# In-Line Pumps

## Stratos PICO Series

wilo

### Stratos PICO Series 제품소개



### 모델명

예) Stratos PICO 25/1-4-130

- Stratos: 고효율 전자제어 펌프
- PICO: Screw-end 인라인 펌프
- 25/: 흡/토출 연결 구경
- 1-4: 양정 범위(m)
- -130: 흡/토출 구경간 거리(mm)

### 적용범위

- 냉난방 및 응축수 시스템과 산업용, 상업용 액체 이송 장치에 적용
- 냉수, 냉각수, 온수, 글리콜 혼합용수(20% 미만)

### 기술자료

- 허용유체  
VDI 2035에 적합한 유체  
냉수/냉각수, 온수, 글리콜 혼합용수(20% 미만)
- 성능  
속도범위: 1,200~4,230 rpm(각 모델 참조)  
온도범위: +2°C~+110°C(글리콜 혼합용수의 온도 ≤ 40°C)
- 유체 온도에 따른 흡입측 가압 조건  
50°C - 0.5m / 95°C - 3m / 110°C - 10m
- 주위 온도: 최대 +40°C
- 현장설치  
파이프에 직접 설치

- 내압등급: PN10
- 주 전원  
1~220V, 60Hz  
1~230V, 50Hz
- 모터  
종류: EC motor  
모터 보호장치 내장  
보호등급: IP44  
절연등급: F종
- 전자파 보호 규정  
EN 61800-3(Electromagnetic compatibility)  
EN 61000-6-3(Emitted interference)  
EN 61000-6-2(Interference resistance)
- 재질구성  
펌프케이싱 Gray Cast Iron + Cathoresis Coating  
임펠러 Engineering Plastic + Glass Fiber  
샤프트 Stainless Steel  
베어링 Carbon + Metal impregnated

### 특장점

- Δp-c 유량변화에 따른 일정한 압력제어
- Δp-v 부하변화에 따른 유량 및 압력제어
- 수동 운전 기능
- 소비전력 및 총 사용량 표시 기능
- 정속펌프 대비 최대 90%까지 에너지 절감 가능
- 유럽 에너지 라벨링 A 등급



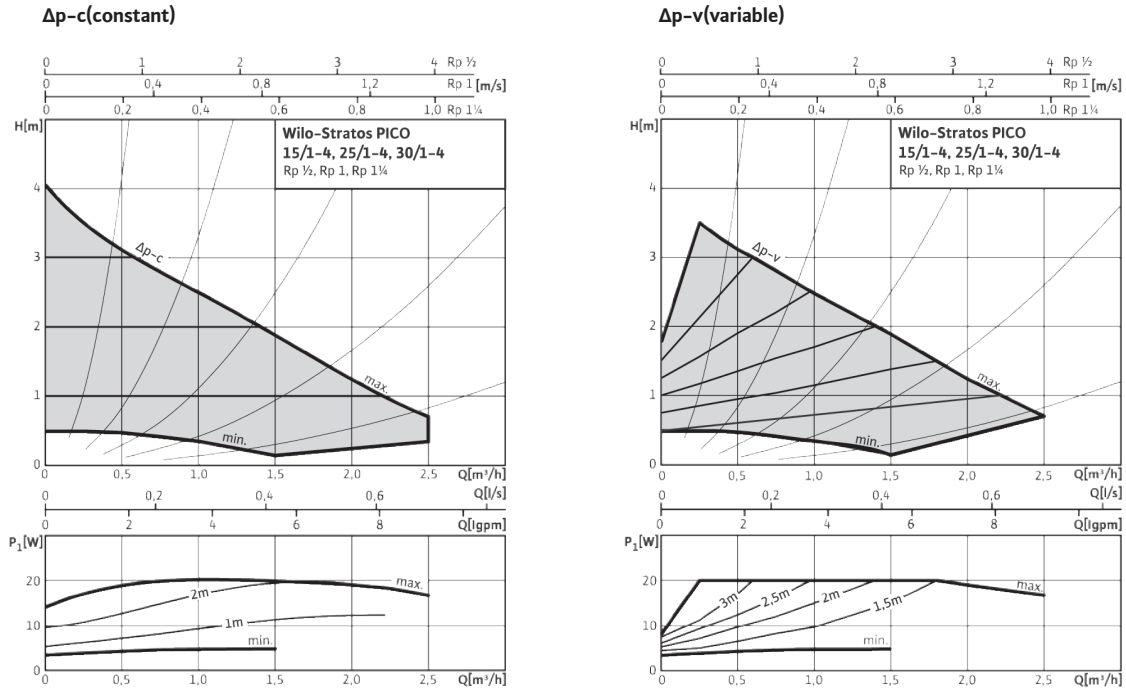
# In-Line Pumps

## Stratos PICO Series

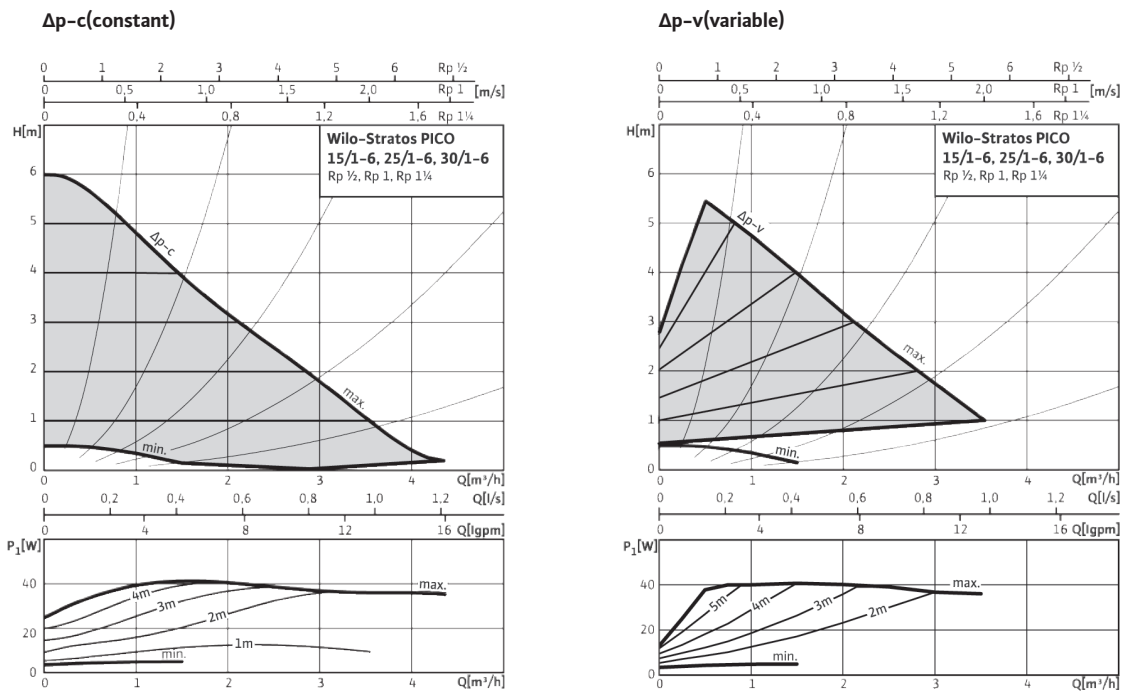
### Stratos PICO Series

성능곡선

### Stratos-PICO 15/1-4, Stratos-PICO 25/1-4, Stratos-PICO 30/1-4



### Stratos-PICO 15/1-6, Stratos-PICO 25/1-6, Stratos-PICO 30/1-6





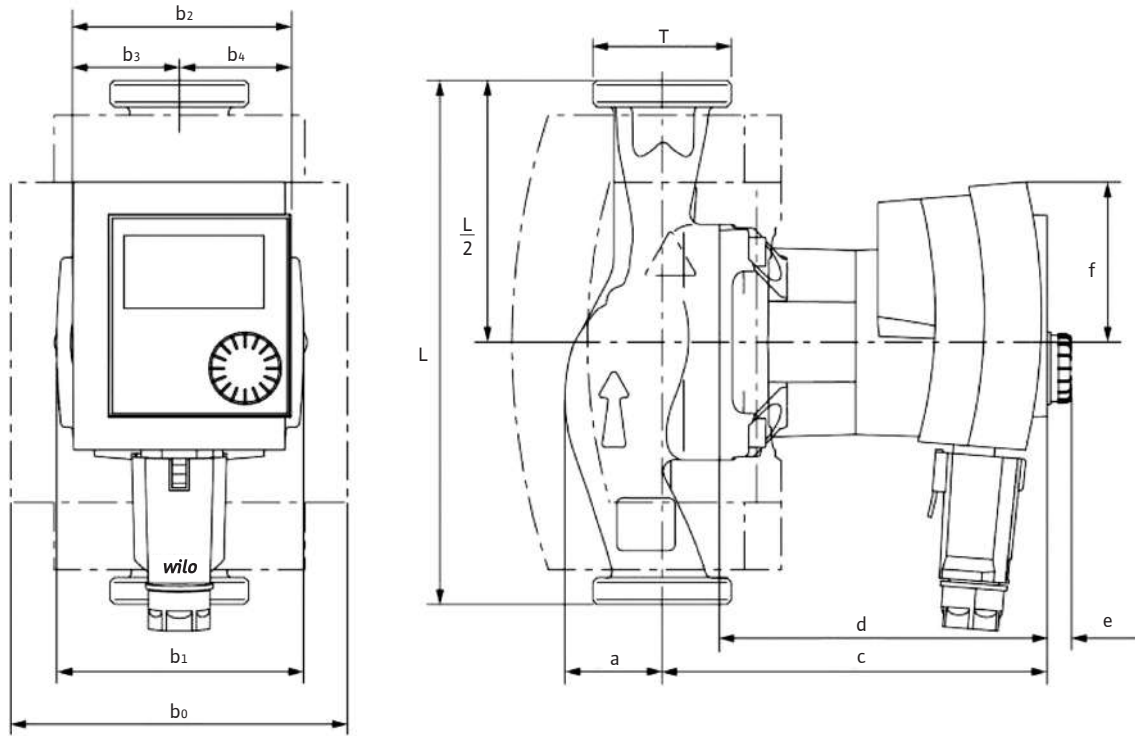
# In-Line Pumps

## Stratos PICO Series



### Stratos PICO Series 외형도, 치수 및 모터 Data

#### 외형도



In-Line Pumps

외형치수													Weight (kg)
Model	T	L	a	b <sub>0</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	b <sub>4</sub>	c	d	e	f	
(mm)													
Stratos PICO 15/1-4	G 1"	130	34	115	81	75	37	38	132	112	8	55	1.7
Stratos PICO 25/1-4	G 1½"	180											2.3
Stratos PICO 25/1-4-130	G 1½"	130											1.7
Stratos PICO 30/1-4	G 2"	180											2.4
Stratos PICO 15/1-6	G 1"	130											1.7
Stratos PICO 25/1-6	G 1½"	180											2.3
Stratos PICO 25/1-6-130	G 1½"	130											1.7
Stratos PICO 30/1-6	G 2"	180											2.4

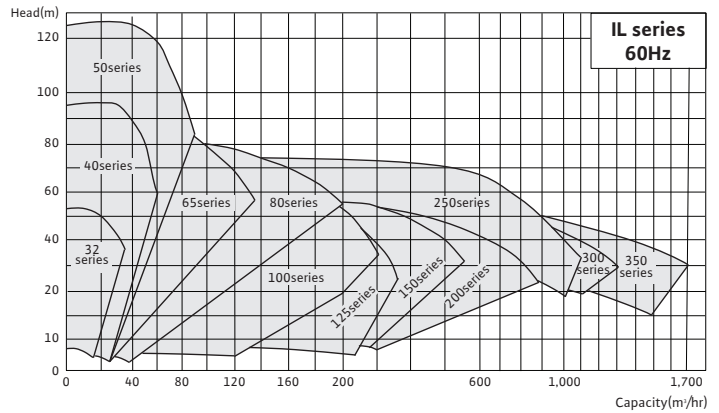
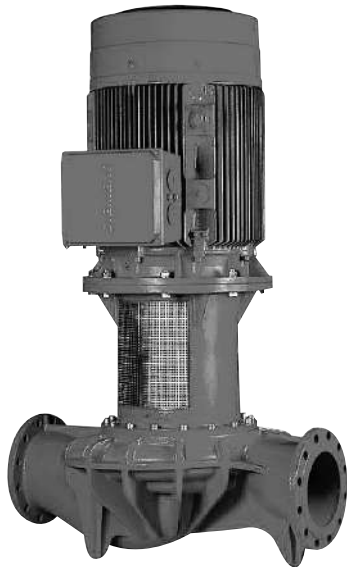
모터 Data			
Model	Power Consumption P <sub>1</sub> (W)	Speed n(rpm)	Nominal current (approx.) I(A)
Stratos PICO 15/1-4	3 - 20	1,200 - 3,492	0.19
Stratos PICO 25/1-4(-130)	3 - 20	1,200 - 3,492	0.19
Stratos PICO 30/1-4	3 - 20	1,200 - 3,492	0.19
Stratos PICO 15/1-6	3 - 40	1,200 - 4,230	0.35
Stratos PICO 25/1-6(-130)	3 - 40	1,200 - 4,230	0.35
Stratos PICO 30/1-6	3 - 40	1,200 - 4,230	0.35

# In-Line Pumps

## IL Series

### IL Series

제품소개



### 모델명

예) IL 250/425-110/4

- IL: 고압인라인 펌프
- 250/: 흡/토출 구경(mm)
- 425: 임펠러 공칭 외경(mm)
- -110: 모터 동력(kW)
- /4: 극수(4극 모터)

### 적용 범위

- 빌딩의 냉온수 순환
- 급탕 순환
- 가압, 응축수 시스템
- 공동주택의 온수 순환
- 쿨링 타워

### 기술자료

- 사용액체  
VDI 2035에 준하는 온수, 냉수, 냉각용수, 열교환용수, 글리콜 혼합용수(20%, 최대 40%까지 option으로 가능)  
\* VDI 2035: VDI guideline for preventing damage in hot water heating installations.

### 운전 범위

최대 유량: 1,000m³/hr  
최고 양정: 120m

### 최대 허용압력

13 bar 에서 +140°C 까지  
16 bar 에서 +120°C 까지

사용 온도: -20°C ~ +140°C

주위 온도: 최대 +40°C

• 축봉장치: 미캐니컬 실 (IL 250은 카트리지 실 채용)

### 플랜지

PN16 (EN 1092-2)  
1/8" 게이지 태핑

### • 모터

IEC 표준 모터(효율 관리 기자재 운영 규정 만족)  
3상, IP55, F종

• 전원 사양: 0.4kW~5.5kW, 220/380V, 60Hz

7.5kW~200kW, 380V(Y-Δ), 60Hz  
(전압 및 주파수 변경은 옵션)

### • 재질(표준)

케이싱 Gray Cast Iron + Cataphoresis Coating  
임펠러 Gray Cast Iron + Cataphoresis Coating  
샤프트 Stainless Steel  
랜턴 Gray Cast Iron + Cataphoresis Coating  
미캐니컬 실 AQ1EGG

(IL 250은 상기 사항과 차이가 있음)

\* 25bar option 가능: GCD450 또는 SC450으로 대응

\* 청동 임펠러 option 가능

\* 스테인리스 스틸 임펠러 option 가능

### 특장점

#### • 구조

백플아웃 구조로 미캐니컬 실과 모터의 교환 및 유지보수가 용이(IL 250 Series)  
커플링 연결구조

#### • 케이싱

흡토출구의 크기가 같은 인라인 펌프 케이싱  
외부 Rib 보강구조로 고압에서도 높은 안전성(대형 모델)

#### • 임펠러

3차원 유동해석을 통한 최적설계  
유체의 저항을 최소화하여 고효율 실현

• 모터: IEC 표준 모터 적용으로 높은 호환성

#### • 미캐니컬 실

카트리지 실로 모터의 분해없이 교환 및 유지보수 가능(IL 250 Series)  
미캐니컬 실 표준 장착

# In-Line Pumps

IL Series

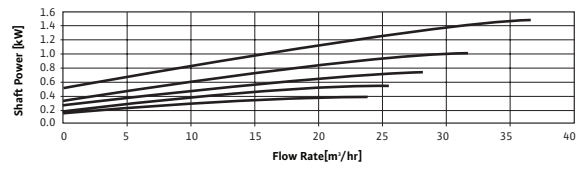
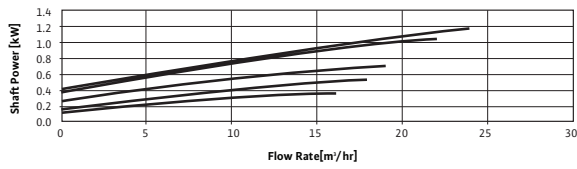
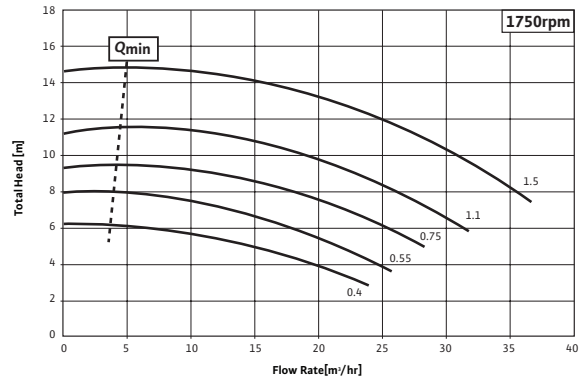
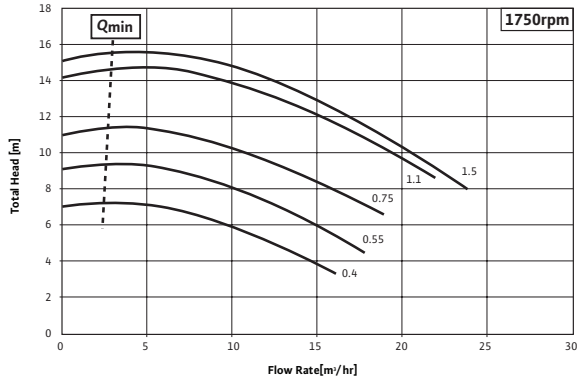
wilo

IL Series

성능곡선 4pole

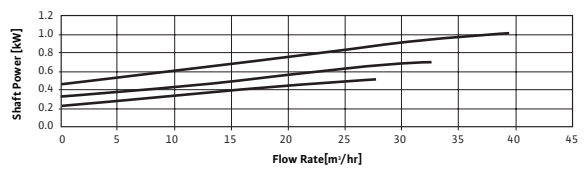
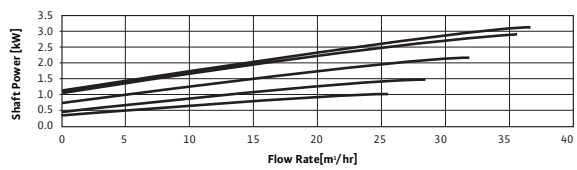
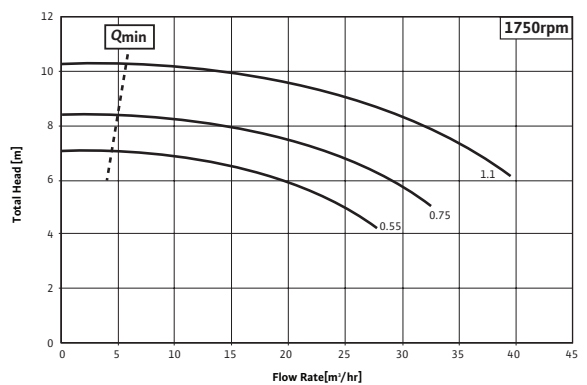
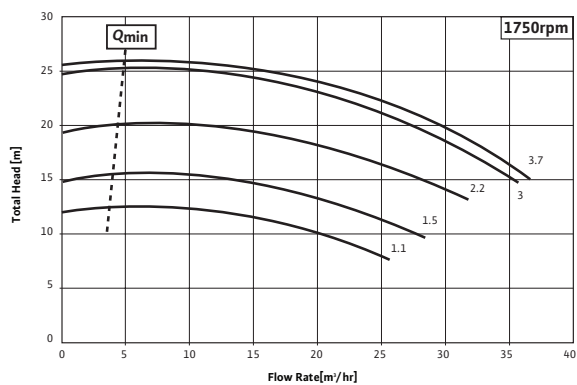
## IL 32/170 Series

## IL 40/170 Series



## IL 40/220 Series

## IL 50/140 Series



# In-Line Pumps

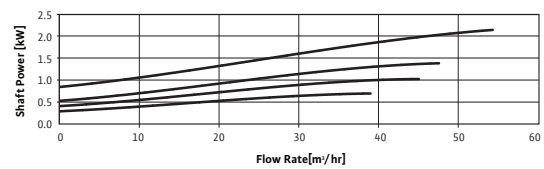
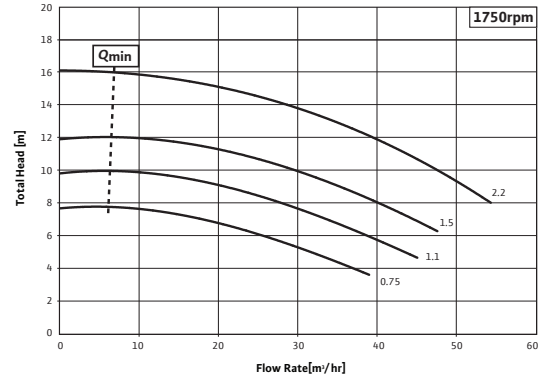
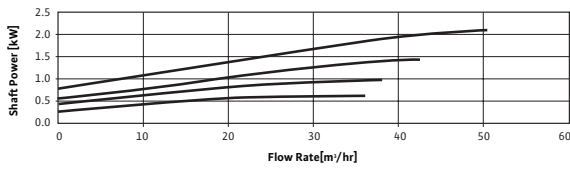
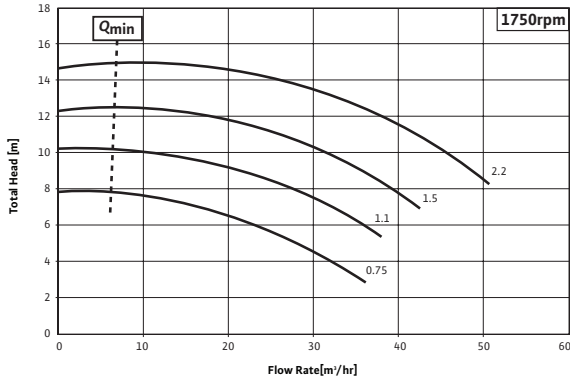
## IL Series

### IL Series

성능곡선 4pole

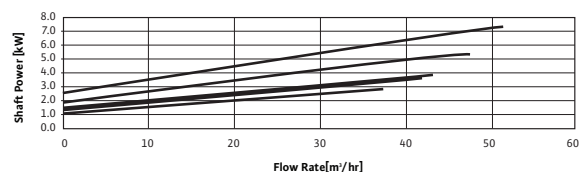
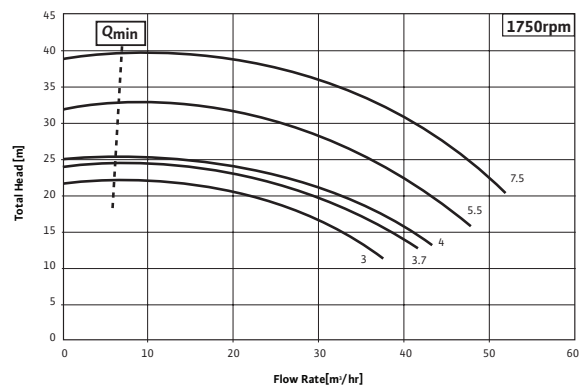
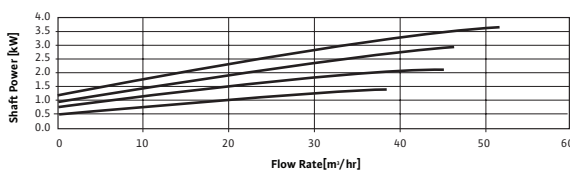
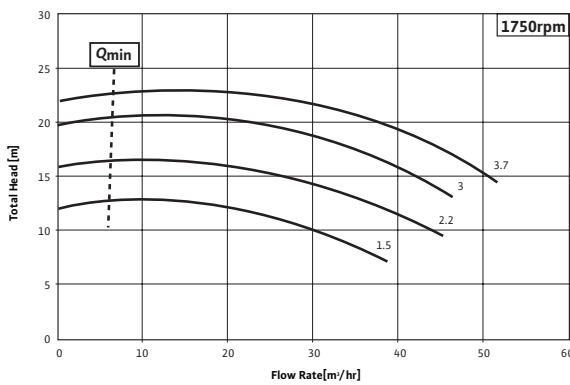
### IL 50/170 Series

### IL 50/175 Series



### IL 50/220 Series

### IL 50/270 Series



# In-Line Pumps

IL Series

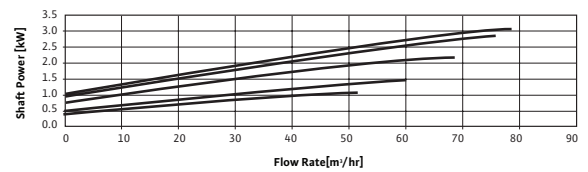
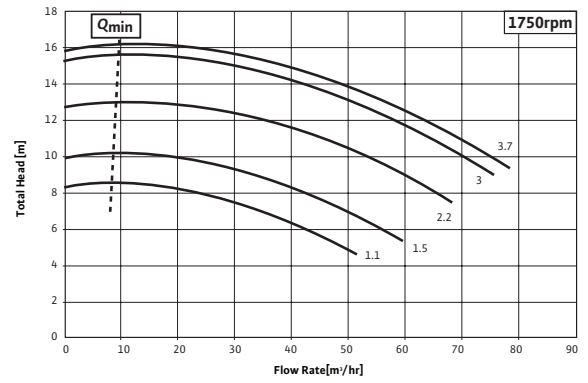
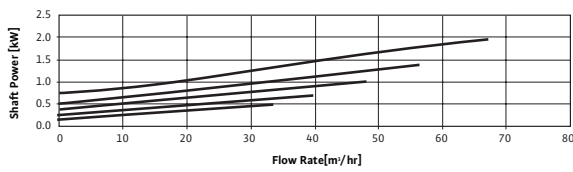
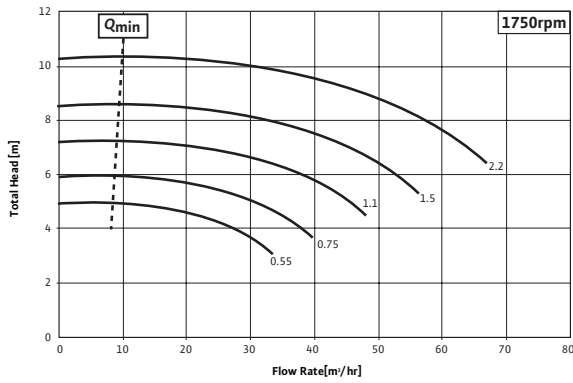
wilo

IL Series

성능곡선 4pole

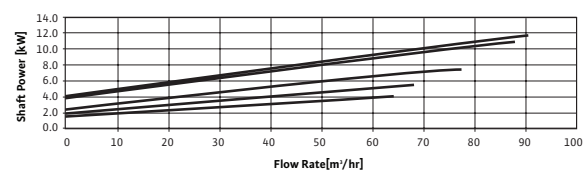
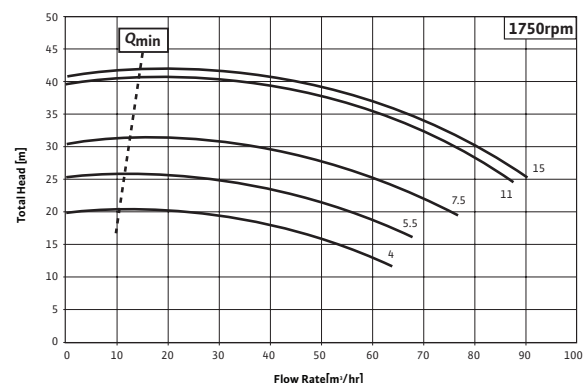
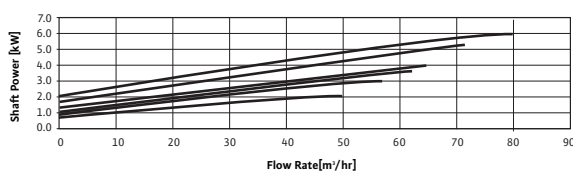
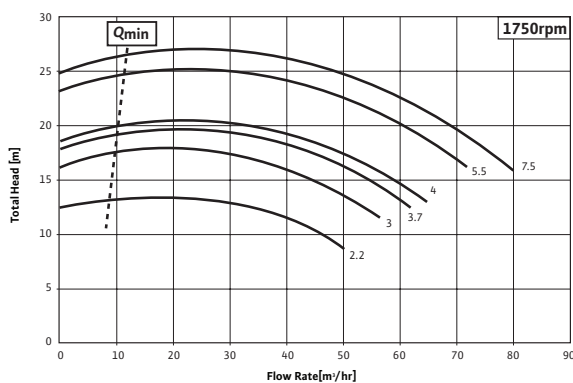
## IL 65/140 Series

## IL 65/170 Series



## IL 65/220 Series

## IL 65/270 Series



In-Line Pumps

# In-Line Pumps

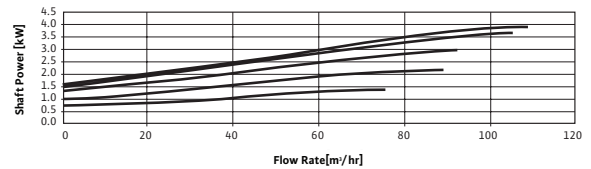
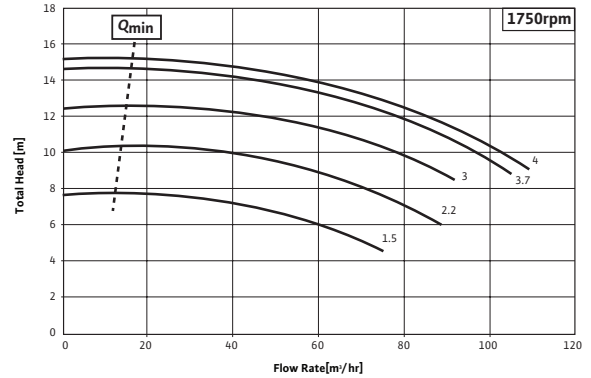
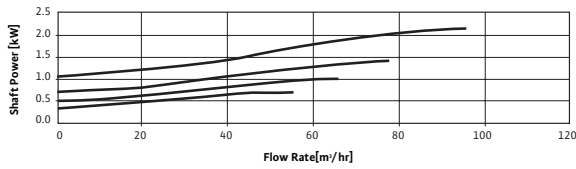
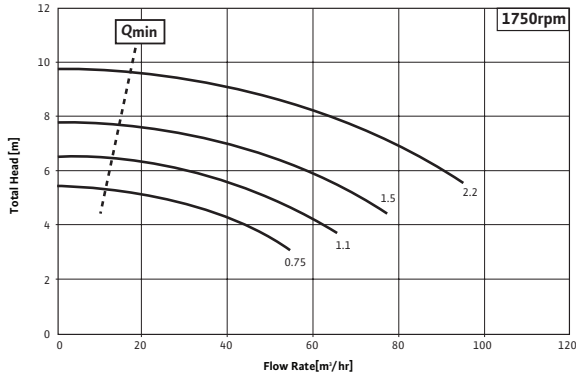
## IL Series

### IL Series

성능곡선 4pole

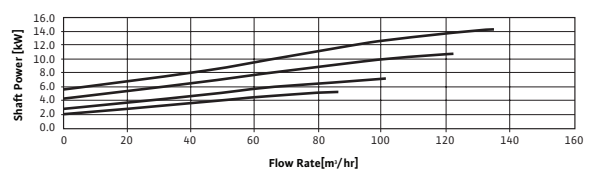
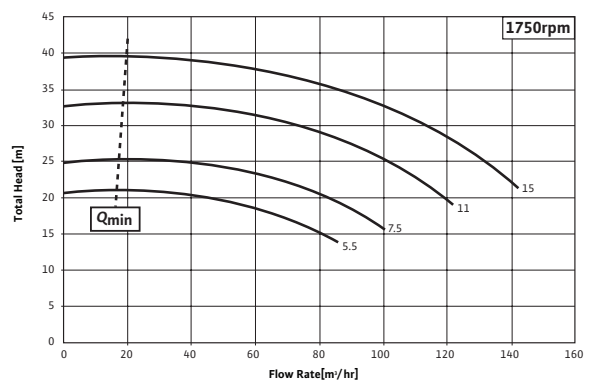
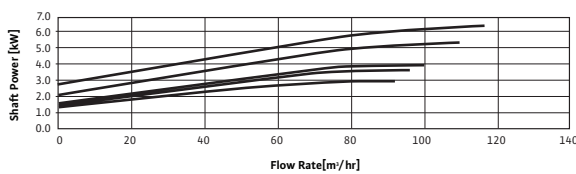
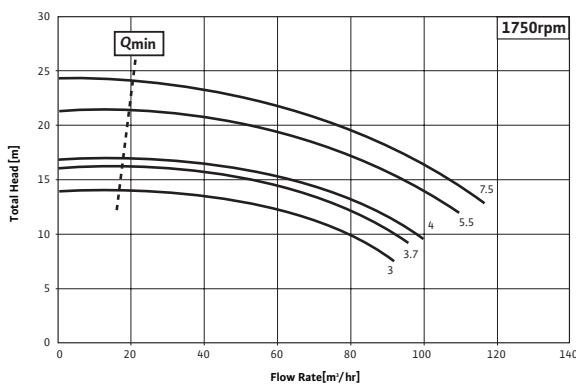
### IL 80/140 Series

### IL 80/170 Series



### IL 80/220 Series

### IL 80/270 Series



# In-Line Pumps

IL Series

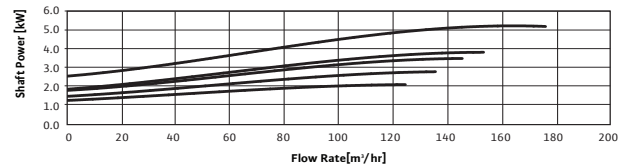
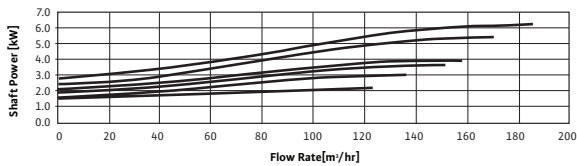
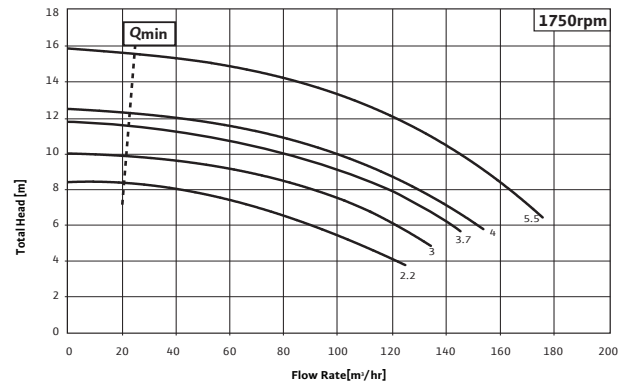
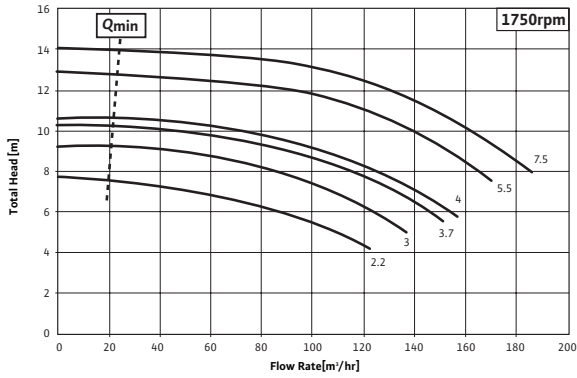


IL Series

성능곡선 4pole

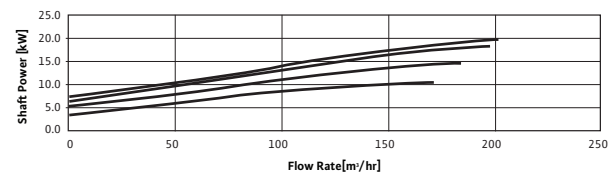
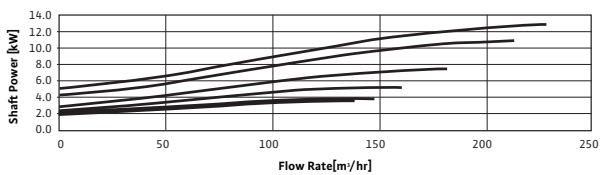
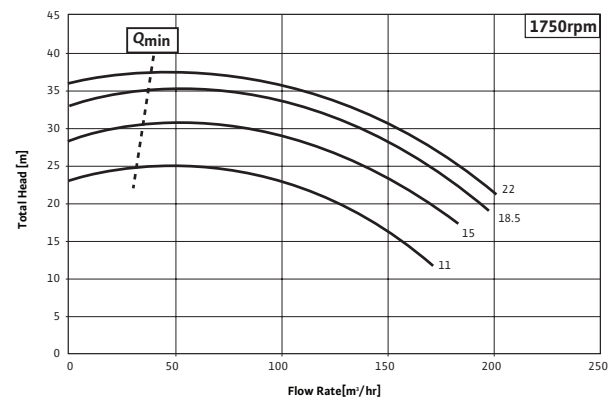
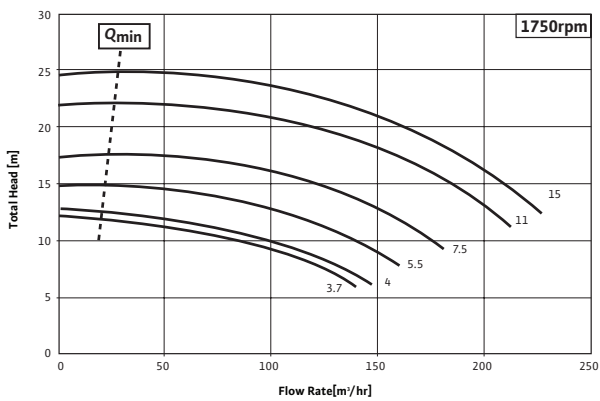
## IL 100/170 Series

## IL 100/175 Series



## IL 100/220 Series

## IL 100/270 Series



In-Line Pumps



# In-Line Pumps

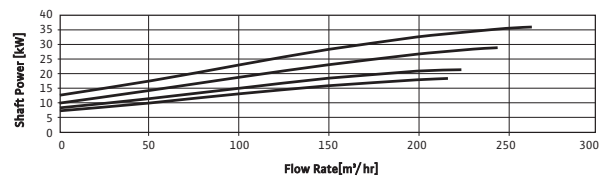
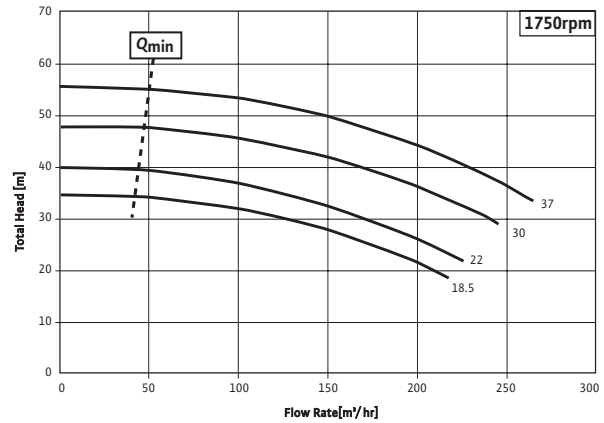
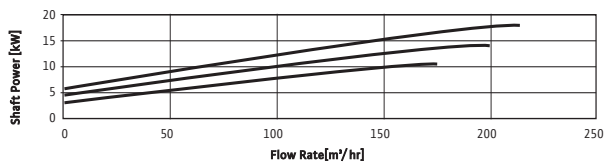
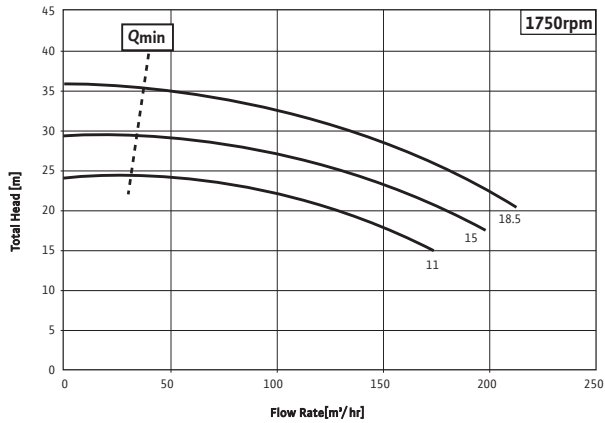
## IL Series

### IL Series

성능곡선 4pole

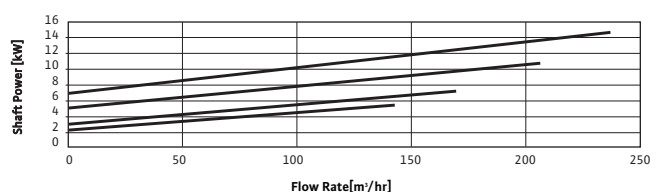
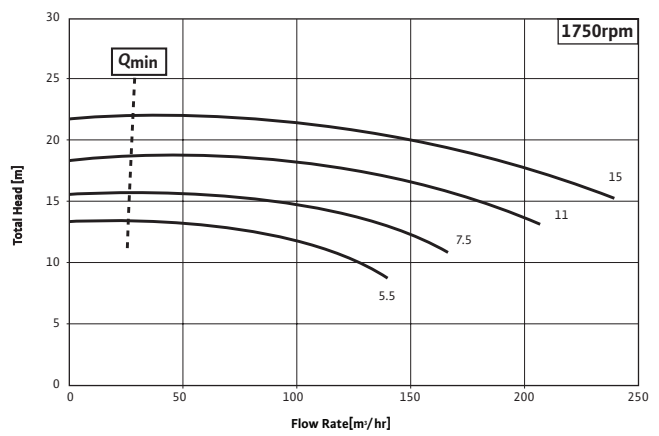
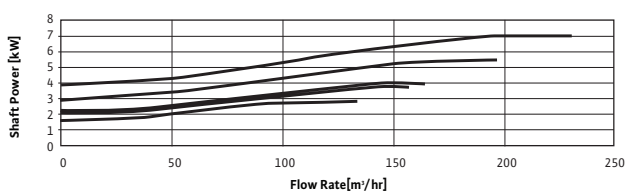
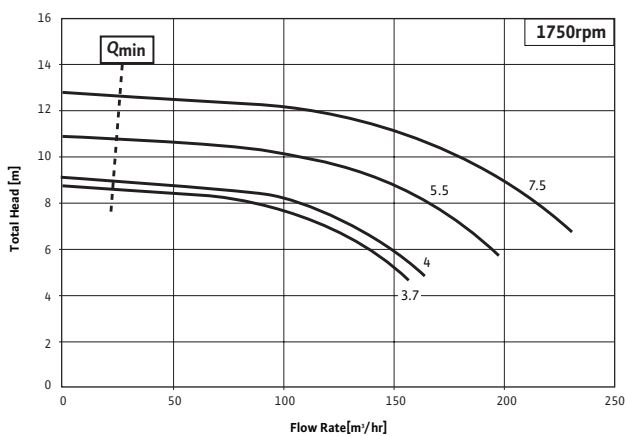
#### IL 100/275 Series

#### IL 100/345 Series



#### IL 125/170 Series

#### IL 125/220 Series



# In-Line Pumps

IL Series

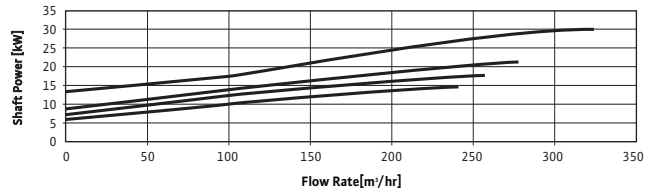
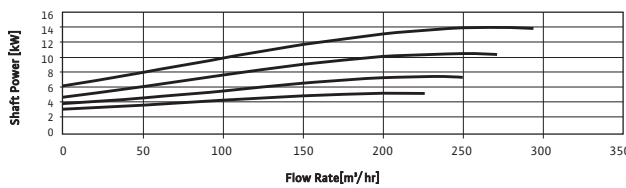
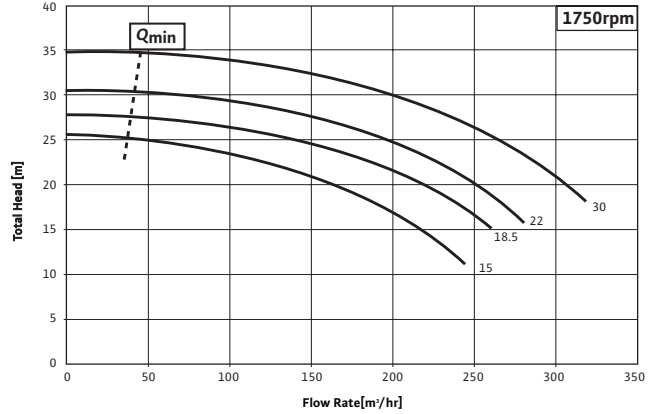
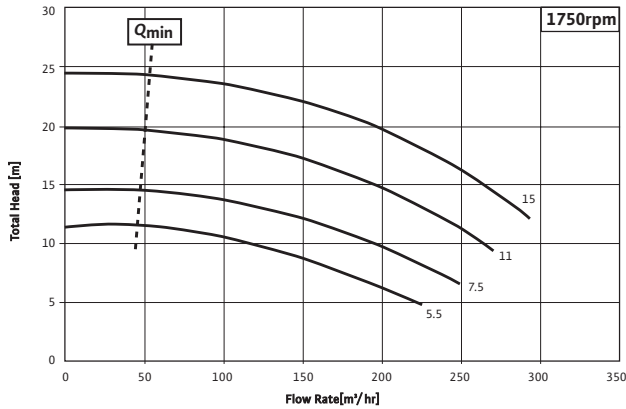
wilo

IL Series

성능곡선 4pole

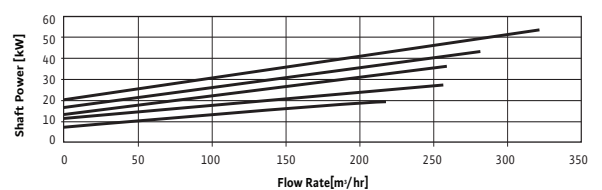
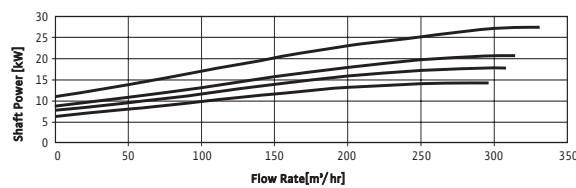
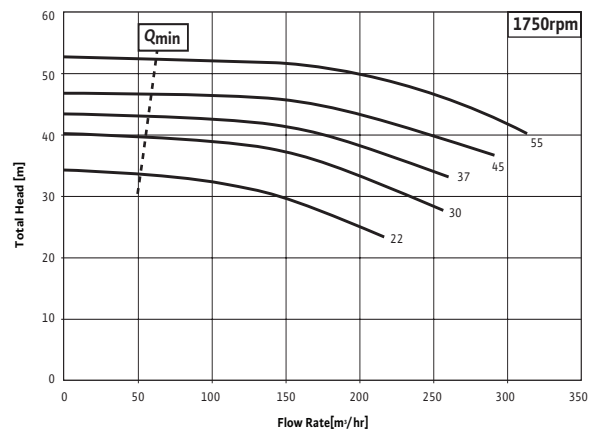
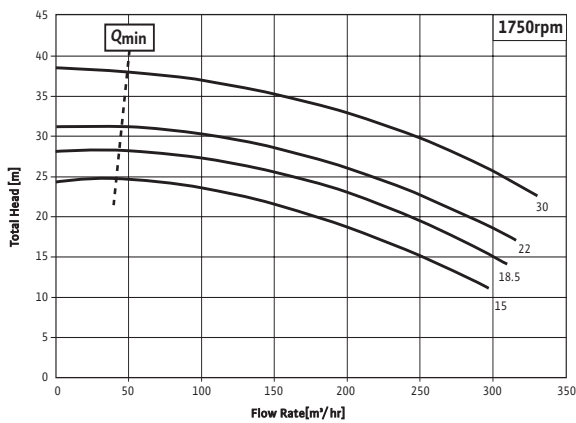
## IL 125/225 Series

## IL 125/270 Series



## IL 125/275 Series

## IL 125/340 Series



# In-Line Pumps

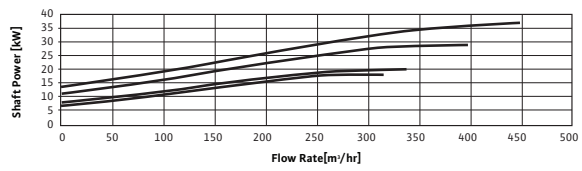
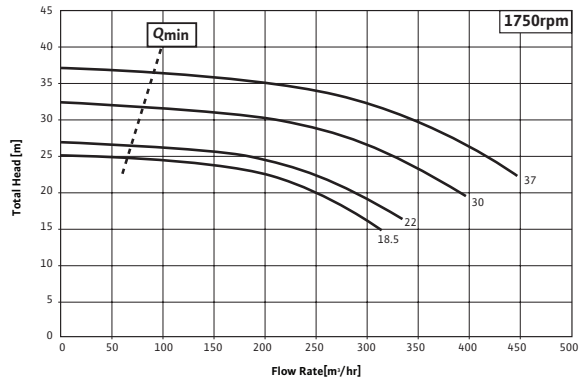
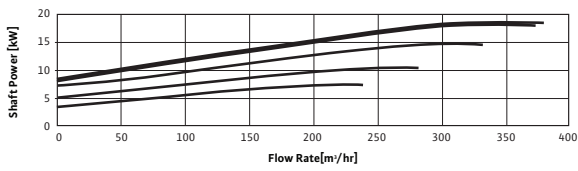
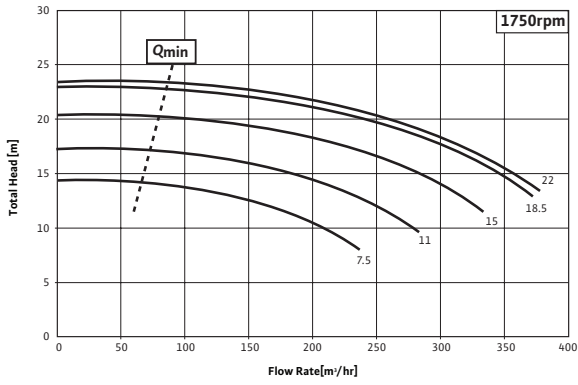
## IL Series

### IL Series

성능곡선 4pole

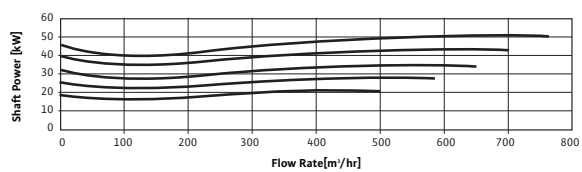
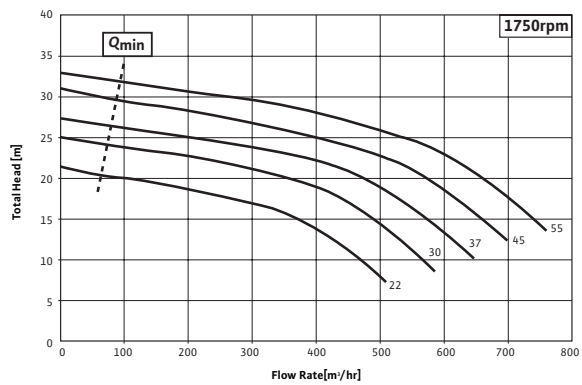
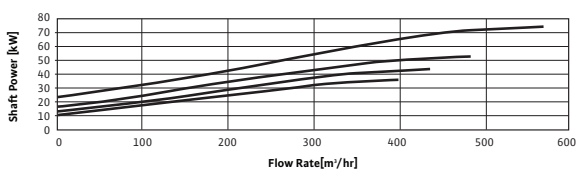
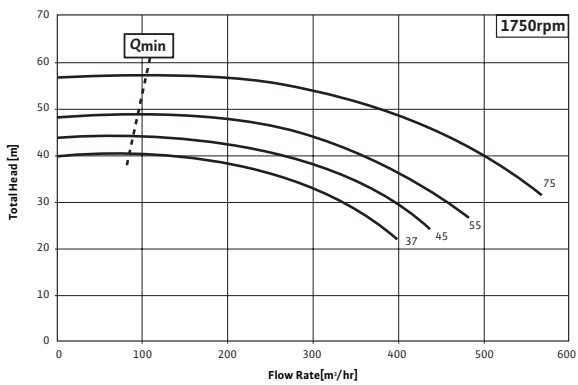
#### IL 150/225 Series

#### IL 150/275 Series



#### IL 150/345 Series

#### IL 200/270 Series



# In-Line Pumps

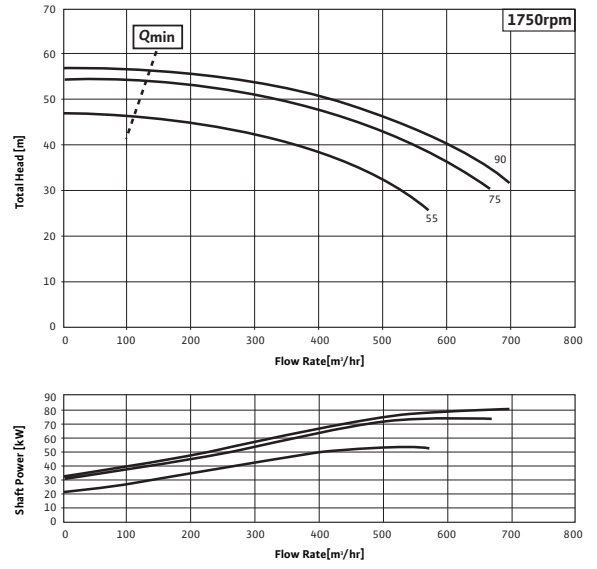
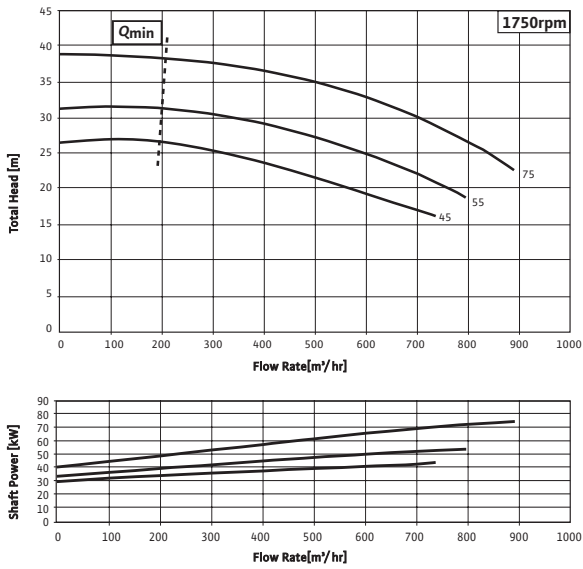
IL Series

wilo

IL Series 성능곡선 4pole

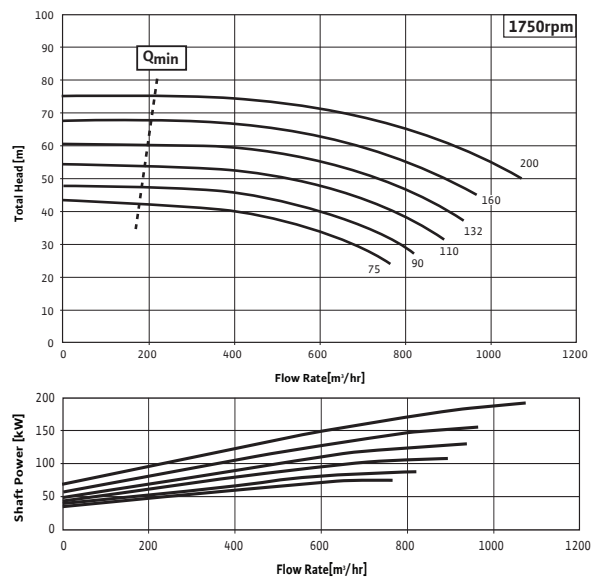
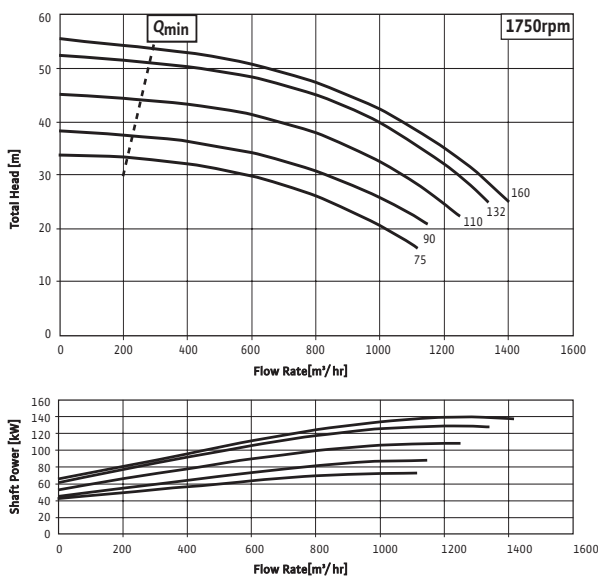
## IL 200/275 Series

## IL 200/345 Series



## IL 250/345 Series

## IL 250/425 Series



# In-Line Pumps

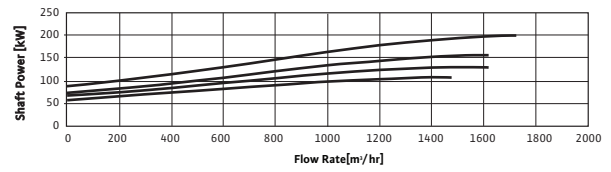
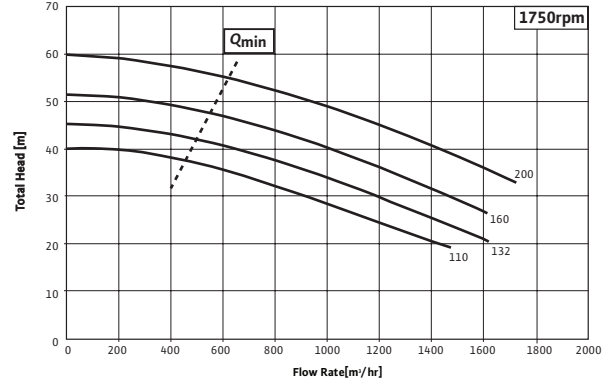
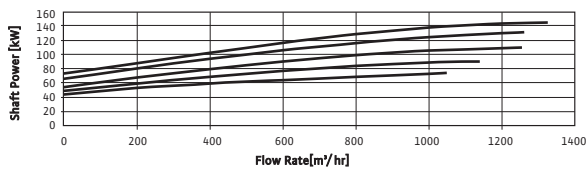
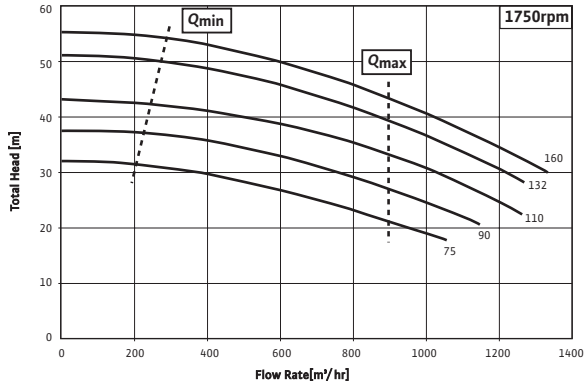
## IL Series

### IL Series

성능곡선 2pole

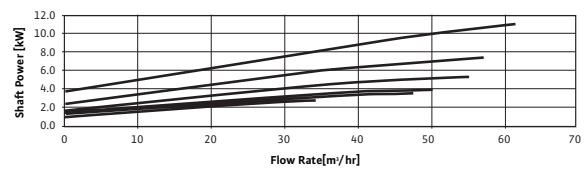
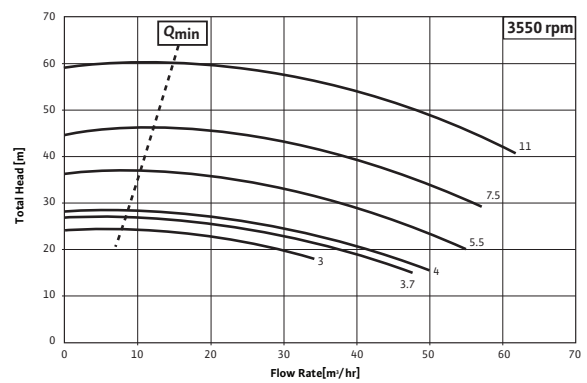
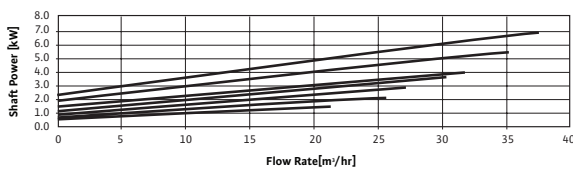
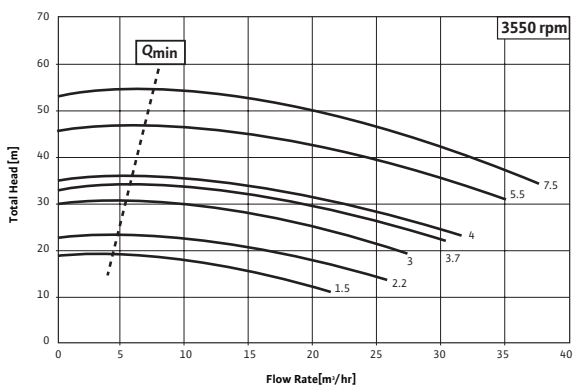
### IL 300/340 Series

### IL 350/355 Series



### IL 32/170 Series

### IL 40/170 Series



# In-Line Pumps

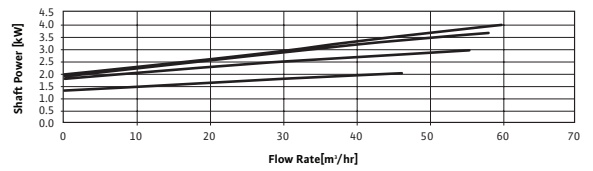
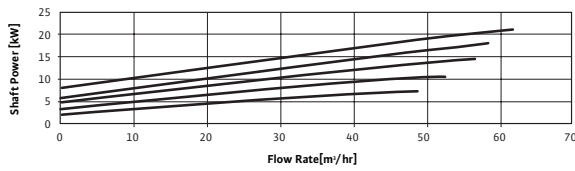
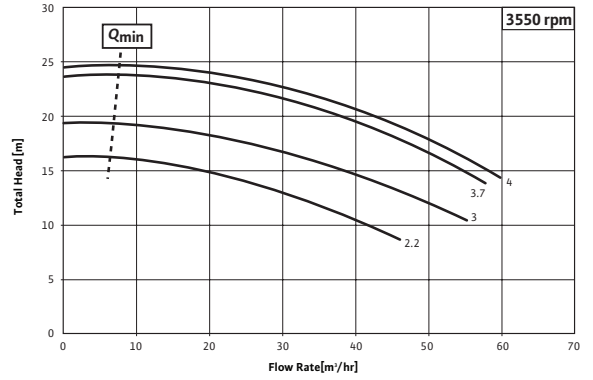
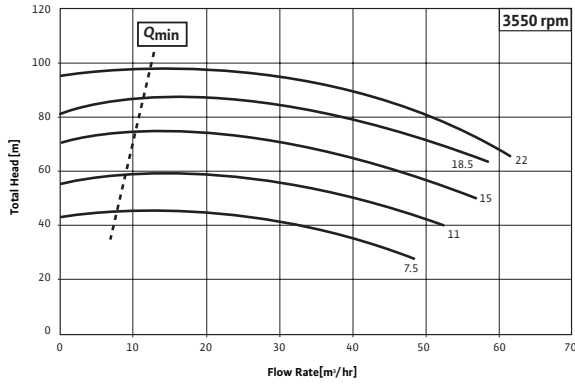
IL Series

wilo

IL Series 성능곡선 2pole

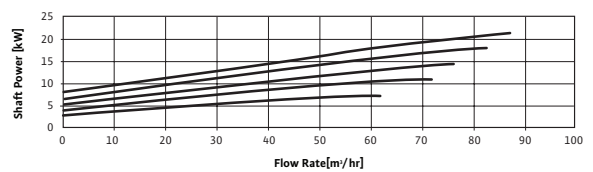
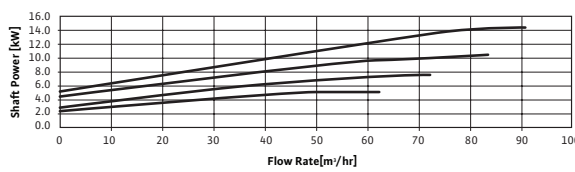
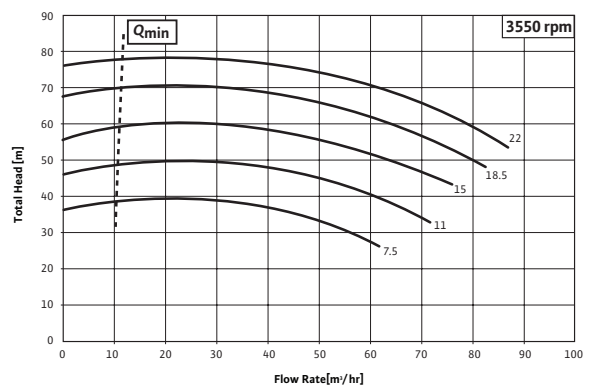
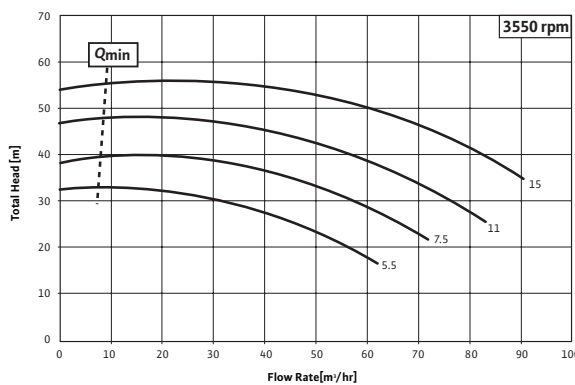
## IL 40/220 Series

## IL 50/140 Series



## IL 50/170 Series

## IL 50/220 Series



# In-Line Pumps

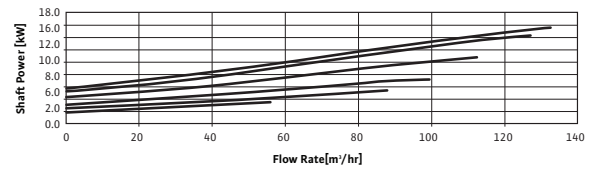
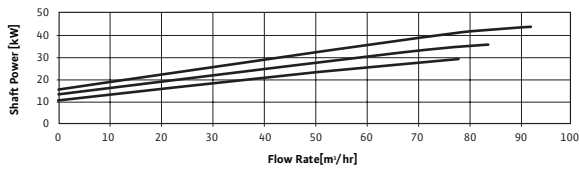
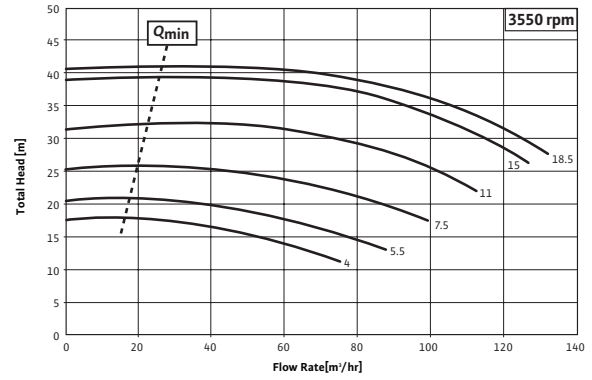
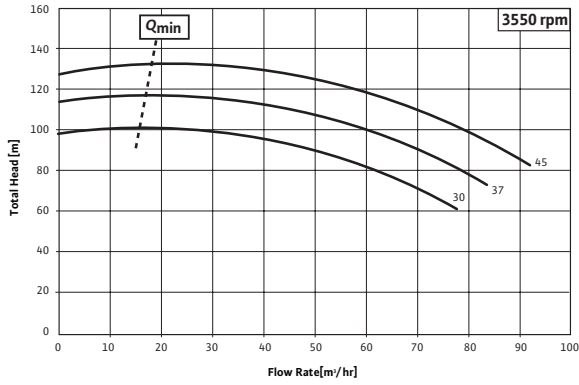
## IL Series

### IL Series

성능곡선 2pole

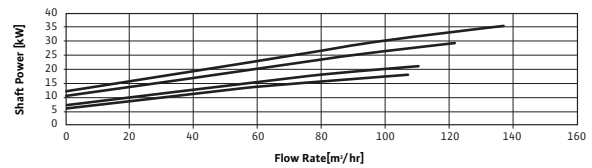
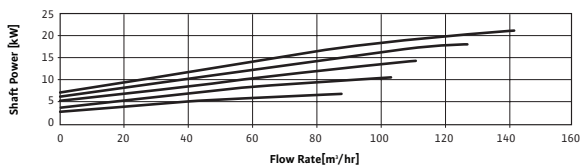
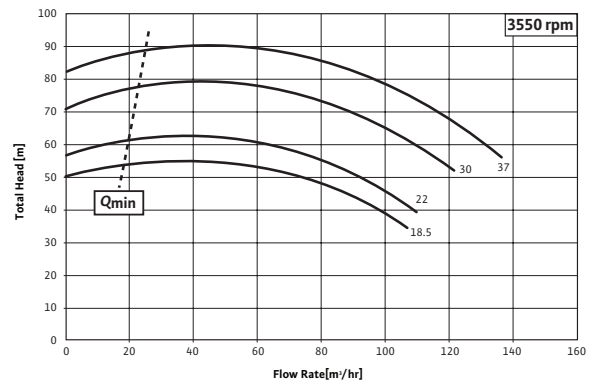
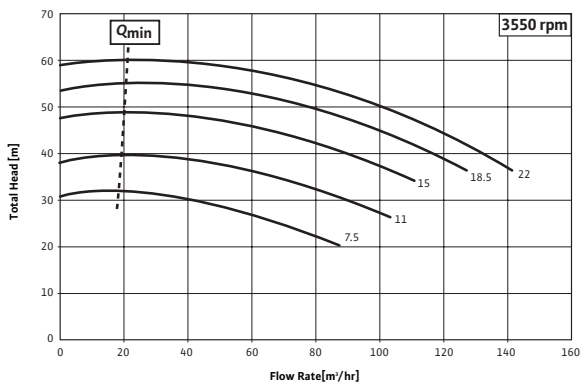
### IL 50/270 Series

### IL 65/140 Series



### IL 65/170 Series

### IL 65/220 Series



# In-Line Pumps

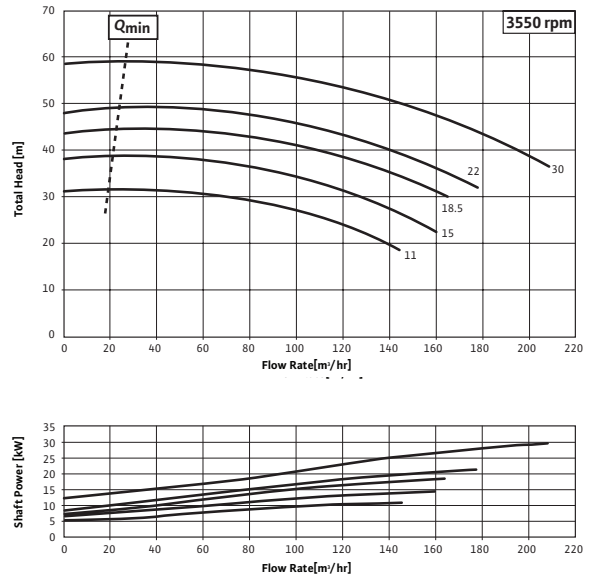
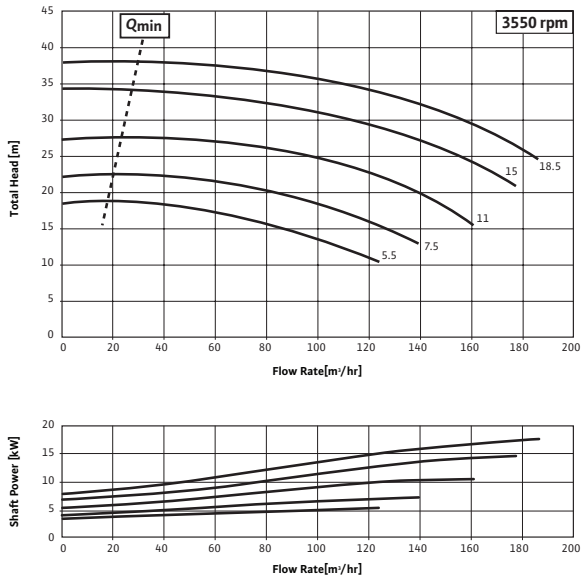
IL Series

wilo

IL Series 성능곡선 2 pole

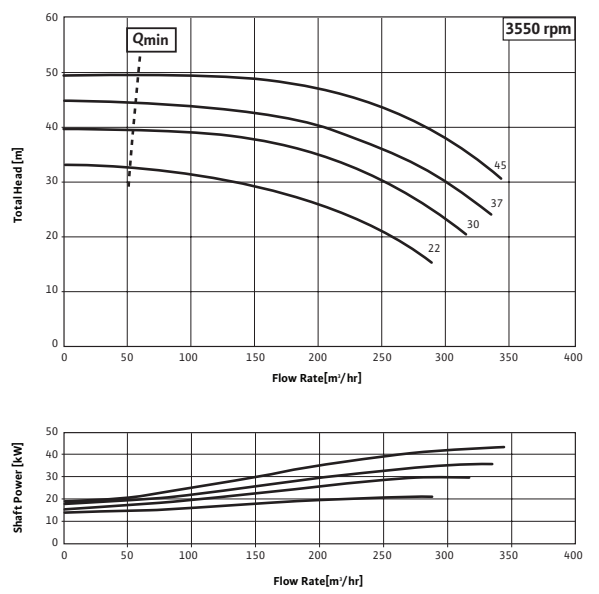
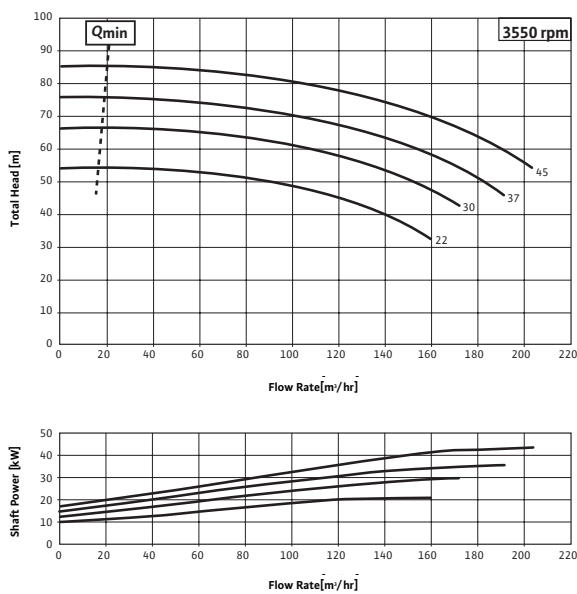
## IL 80/140 Series

## IL 80/170 Series



## IL 80/220 Series

## IL 100/170 Series





# In-Line Pumps

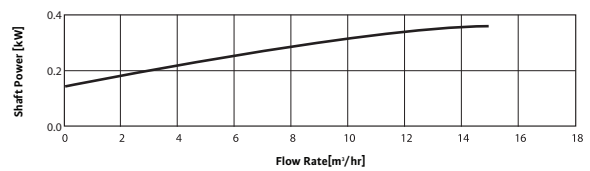
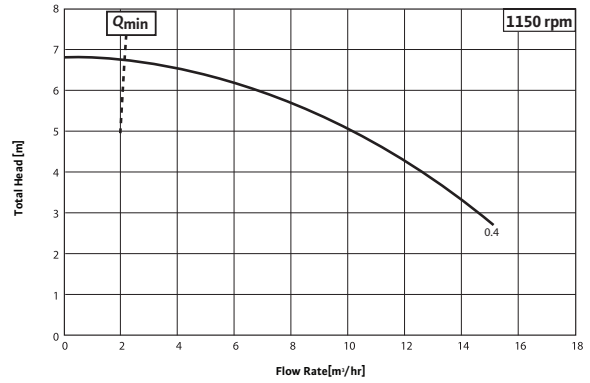
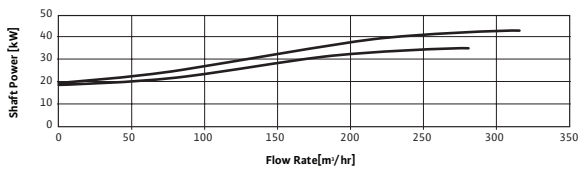
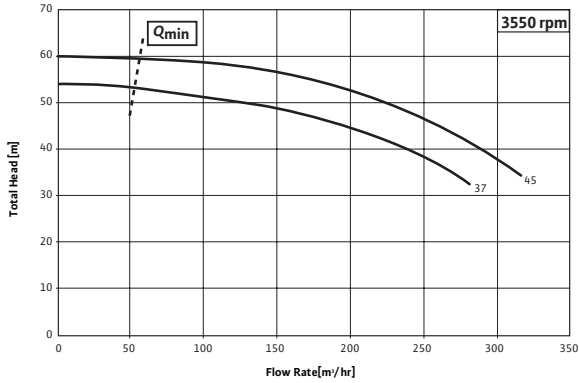
IL Series

IL Series

성능곡선 6pole

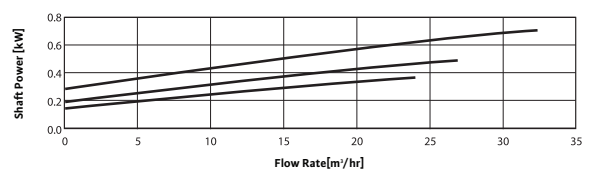
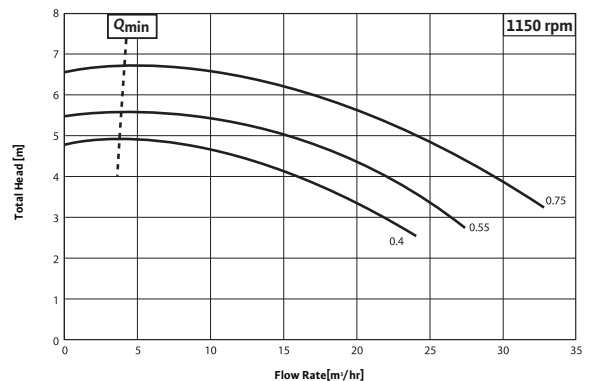
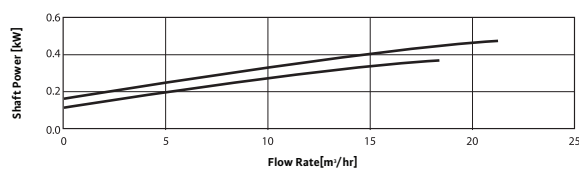
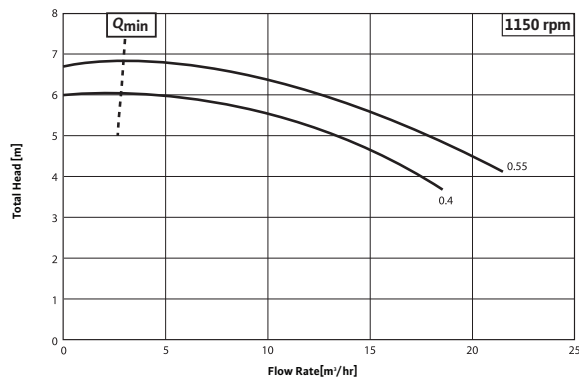
## IL 100/220 Series

## IL 32/170 Series



## IL 40/170 Series

## IL 50/170 Series



# In-Line Pumps

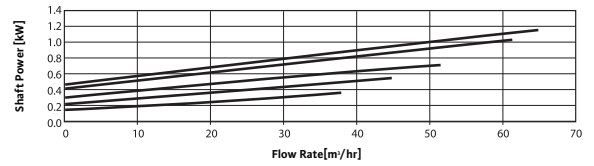
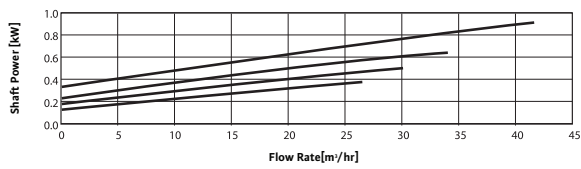
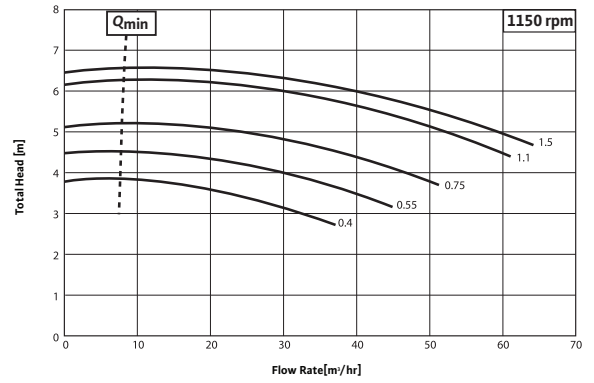
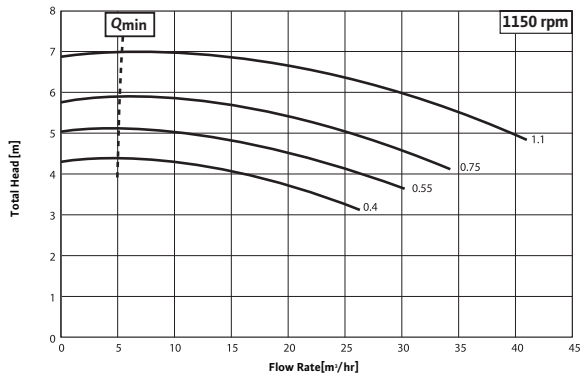
IL Series

wilo

IL Series 성능곡선 6pole

## IL 65/170 Series

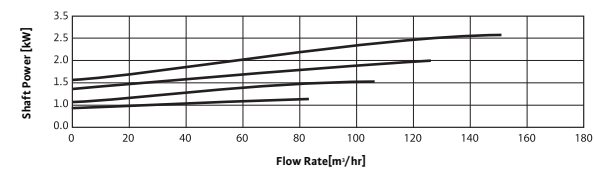
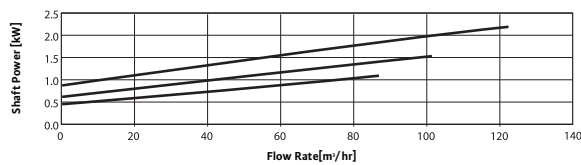
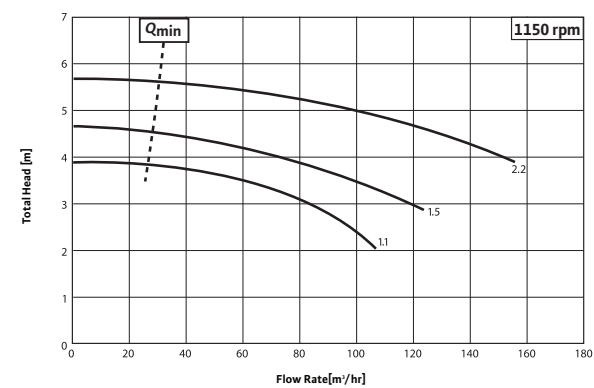
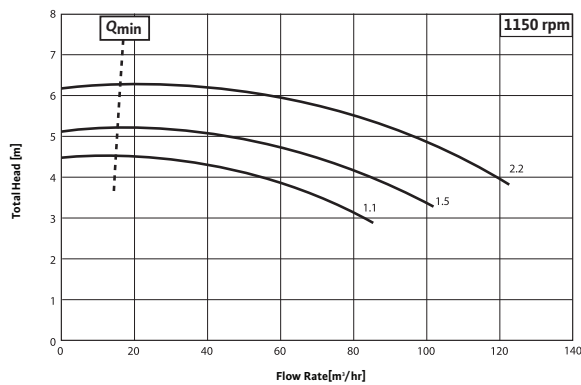
## IL 80/170 Series



In-Line Pumps

## IL 100/170 Series

## IL 125/170 Series



# In-Line Pumps

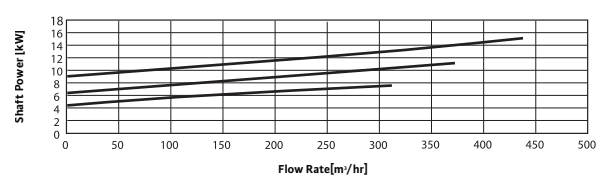
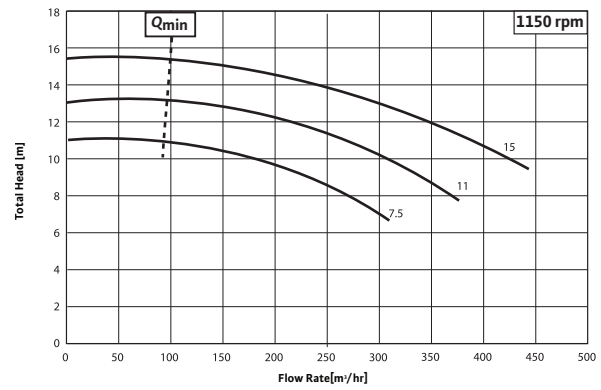
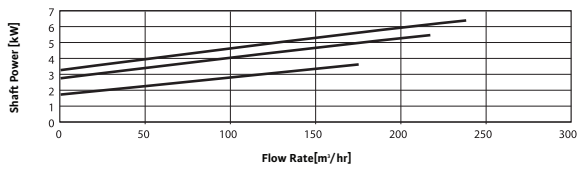
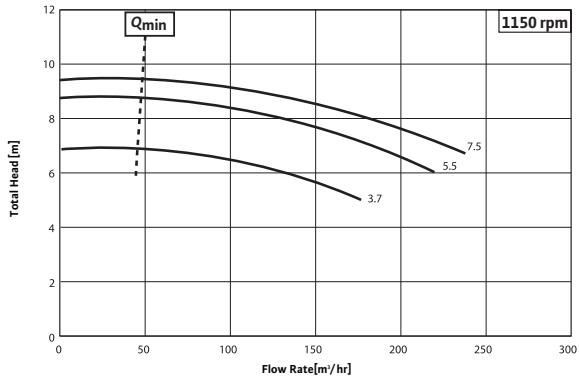
## IL Series

### IL Series

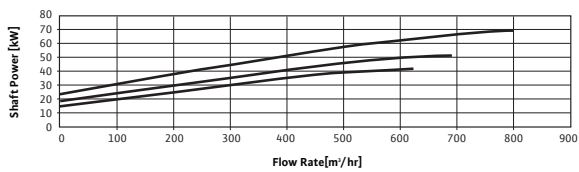
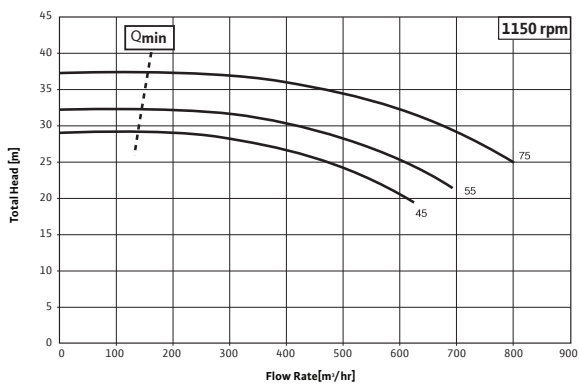
성능곡선 6pole

### IL 150/225 Series

### IL 200/270 Series



### IL 250/425 Series



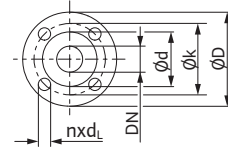
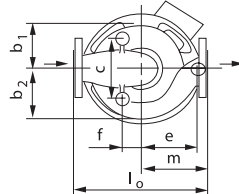
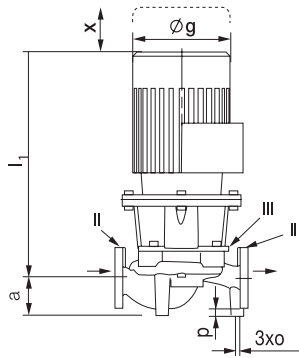
# In-Line Pumps

## IL Series



### IL Series 외형도

#### 외형도

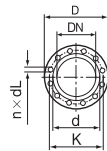
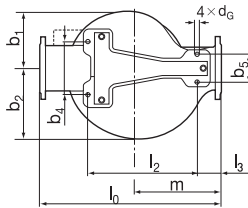
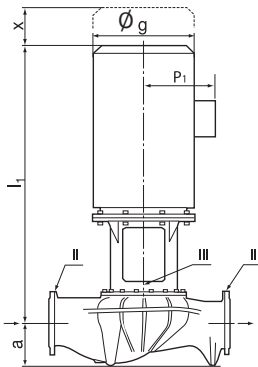


II GAUGE TAPPINGS 1/8"  
III VENT PLUG 1/8"

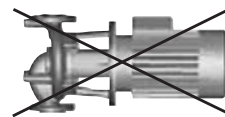
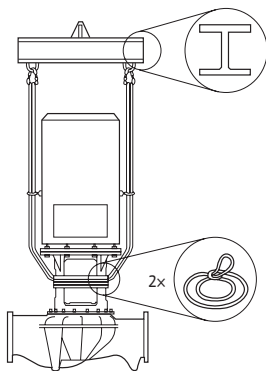
(IL 250/IL 300/IL 350 series제외)

※Terminal box의 위치는 모델에 따라서 다를 수 있음

#### 외형도 (IL 250/IL 300/IL 350 Series)



#### 이동과 설치



# In-Line Pumps

## IL Series

### IL Series

외형치수

#### 외형치수 IL 250/IL 300/IL 350 Series

Model	DN	Dimensions (mm)														Weight (kg)
		a	b <sub>1</sub>	b <sub>2</sub>	b <sub>4</sub>	b <sub>5</sub>	d <sub>6</sub>	Øg	~l <sub>max</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>0</sub>	m	p <sub>1</sub>	x	
IL250/345-75/4	250	360	307	382	300	180	24	510	1668	555	175	1000	450	465	190	1040
IL250/345-90/4	250	360	307	382	300	180	24	510	1668	555	175	1000	450	465	190	1070
IL250/345-110/4	250	360	307	382	300	180	24	617	1758	555	175	1000	450	560	190	1380
IL250/345-132/4	250	360	307	382	300	180	24	617	1798	555	175	1000	450	550	190	1450
IL250/345-160/4	250	360	307	382	300	180	24	652	1937	555	175	1000	450	588	190	1680
IL250/425-75/4	250	321	377	496	340	180	24	510	1674	700	150	1150	575	465	190	1250
IL250/425-90/4	250	321	377	496	340	180	24	510	1674	700	150	1150	575	465	190	1280
IL250/425-110/4	250	321	377	496	340	180	24	617	1764	700	150	1150	575	550	190	1570
IL250/425-132/4	250	321	377	496	340	180	24	617	1804	700	150	1150	575	550	190	1640
IL250/425-160/4	250	321	377	496	340	180	24	652	1943	700	150	1150	575	588	190	1870
IL250/425-200/4	250	321	377	496	340	180	24	652	1943	700	150	1150	575	588	190	1930
IL250/425-45/6	250	321	377	496	340	180	24	454	1624	700	150	1150	575	434	190	1200
IL250/425-55/6	250	321	377	496	340	180	24	510	1674	700	150	1150	575	465	190	1250
IL250/425-75/6	250	321	377	496	340	180	24	510	1674	700	150	1150	575	465	190	1280
IL300/340-75/4	300	334	291	382	340	180	24	510	1724	700	160	1050	575	465	190	1353
IL300/340-90/4	300	334	291	382	340	180	24	510	1724	700	160	1050	575	465	190	1403
IL300/340-110/4	300	334	291	382	340	180	24	617	1814	700	160	1050	575	550	190	1685
IL300/340-132/4	300	334	291	382	340	180	24	617	1854	700	160	1050	575	550	190	1685
IL300/340-160/4	300	334	291	382	340	180	24	652	1993	700	160	1050	575	588	190	1915
IL350/355-110/4	350	405	264	412	340	180	24	617	1874	700	240	1200	600	550	190	1700
IL350/355-132/4	350	405	264	412	340	180	24	617	1914	700	240	1200	600	550	190	1770
IL350/355-160/4	350	405	264	412	340	180	24	652	2053	700	240	1200	600	588	190	2000
IL350/355-200/4	350	405	264	412	340	180	24	652	2053	700	240	1200	600	588	190	2060

#### 플랜지 규격(Pumphousing Flange EN 1092-2, PN16 / PN25)

DN	ØD	Ød	Øk	n × d <sub>L</sub>
	[mm]			Number × mm
32	140	76	100	4 × 19
40	150	84	110	4 × 19
50	165	99	125	4 × 19
65	185	118	145	4 × 19
80	200	132	160	8 × 19
100	220 / 235	156	180 / 190	8 × 19 / 8 × 23
125	250 / 270	184	210 / 220	8 × 19 / 8 × 28
150	285 / 300	211	240 / 250	8 × 23 / 8 × 28
200	340 / 360	266 / 274	295 / 310	12 × 23 / 12 × 28
250	405 / 425	319 / 330	355 / 370	12 × 28 / 12 × 31
300	460 / 485	370 / 389	410 / 430	12 × 28 / 16 × 31
350	520 / 555	429 / 448	470 / 490	16 × 28 / 16 × 34

#### 플랜지 규격(Pumphousing Flange EN 1092-1, PN16/PN25)

DN	ØD	Ød	Øk	n × d <sub>L</sub>
	[mm]			Number × mm
32	140	78	100	4 × 18
40	150	88	110	4 × 18
50	165	102	125	4 × 18
65	185	122	145	8 × 18
80	200	138	160	8 × 18
100	220 / 235	158 / 162	180 / 190	8 × 18 / 8 × 22
125	250 / 270	188	210 / 220	8 × 18 / 8 × 26
150	285 / 300	212 / 218	240 / 250	8 × 22 / 8 × 26
200	340 / 360	268 / 278	295 / 310	12 × 22 / 12 × 26
250	405 / 425	320 / 335	355 / 370	12 × 26 / 12 × 30
300	460 / 485	378 / 395	410 / 430	12 × 26 / 16 × 30
350	520 / 555	438 / 450	470 / 490	16 × 26 / 16 × 33

\* 표준은 EN1092-2, PN-16(IL300/IL350은 EN1092-2, PN25)

\* 일부 모델에 따라 Ød 치수가 상이할 수 있음(단, EN 1092-2 규격은 만족)

# In-Line Pumps

IL Series

## IL Series 외형치수

외형치수 4pole															
Model	DN	a	b <sub>1</sub>	b <sub>2</sub>	c	e	f	Øg	l <sub>o</sub>	~l <sub>1</sub>	m	o	p	x	Weight (kg)
		(mm)													
IL32/170-0.4/4	32	100	112	124	120	132	68	170	320	441	155	M10	20	90	46
IL32/170-0.55/4	32	100	112	124	120	132	68	170	320	451	155	M10	20	90	46
IL32/170-0.75/4	32	100	112	124	120	132	68	170	320	451	155	M10	20	90	46
IL32/170-1.1/4	32	100	112	124	120	132	68	170	320	451	155	M10	20	90	52
IL32/170-1.5/4	32	100	112	124	120	132	68	196	320	490	155	M10	20	90	57
IL40/170-0.4/4	40	82	113	129	130	149	58	170	340	455	170	M10	20	95	49
IL40/170-0.55/4	40	82	113	129	130	149	58	170	340	465	170	M10	20	95	49
IL40/170-0.75/4	40	82	113	129	130	149	58	170	340	465	170	M10	20	95	49
IL40/170-1.1/4	40	82	113	129	130	149	58	170	340	465	170	M10	20	95	54
IL40/170-1.5/4	40	82	113	129	130	149	58	196	340	504	170	M10	20	95	59
IL40/220-1.1/4	40	110	145	149	180	172	78	170	440	459	190	M10	20	100	62
IL40/220-1.5/4	40	110	145	149	180	172	78	196	440	498	190	M10	20	100	67
IL40/220-2.2/4	40	110	145	149	180	172	78	196	440	559	190	M10	20	100	74
IL40/220-3/4	40	110	145	149	180	172	78	255	440	619	190	M10	20	100	80
IL40/220-3.7/4	40	110	145	149	180	172	78	255	440	619	190	M10	20	100	80
IL50/140-0.55/4	50	105	102	119	140	130	40	170	340	454	150	M10	20	100	47
IL50/140-0.75/4	50	105	102	119	140	130	40	170	340	454	150	M10	20	100	47
IL50/140-1.1/4	50	105	102	119	140	130	40	170	340	454	150	M10	20	100	52
IL50/170-0.75/4	50	103	120	139	164	143	48	170	340	473	170	M10	20	100	53
IL50/170-1.1/4	50	103	120	139	164	143	48	170	340	473	170	M10	20	100	58
IL50/170-1.5/4	50	103	120	139	164	143	48	196	340	512	170	M10	20	100	63
IL50/170-2.2/4	50	103	120	139	164	143	48	196	340	574	170	M10	20	100	70
IL50/175-0.75/4	50	103	120	139	164	143	48	170	340	473	170	M10	20	100	53
IL50/175-1.1/4	50	103	120	139	164	143	48	170	340	473	170	M10	20	100	58
IL50/175-1.5/4	50	103	120	139	164	143	48	196	340	512	170	M10	20	100	63
IL50/175-2.2/4	50	103	120	139	164	143	48	196	340	574	170	M10	20	100	70
IL50/220-1.5/4	50	120	145	150	160	170	70	196	440	699	190	M10	20	100	70
IL50/220-2.2/4	50	120	145	150	160	170	70	196	440	560	190	M10	20	100	77
IL50/220-3/4	50	120	145	150	160	170	70	255	440	620	190	M10	20	100	83
IL50/220-3.7/4	50	120	145	150	160	170	70	255	440	620	190	M10	20	100	83
IL50/270-3/4	50	122	174	178	200	200	70	255	440	548	220	M10	20	120	91
IL50/270-3.7/4	50	122	174	178	200	200	70	255	440	548	220	M10	20	120	91
IL50/270-4/4	50	122	174	178	200	200	70	255	440	548	220	M10	20	120	91
IL50/270-5.5/4	50	122	174	178	200	200	70	282	440	717	220	M10	20	120	110
IL50/270-7.5/4	50	122	174	178	200	200	70	282	440	717	220	M10	20	120	120
IL65/140-0.55/4	65	120	112	134	140	140	60	170	340	467	160	M12	20	110	51
IL65/140-0.75/4	65	120	112	134	140	140	60	170	340	467	160	M12	20	110	51
IL65/140-1.1/4	65	120	112	134	140	140	60	170	340	467	160	M12	20	110	56
IL65/140-1.5/4	65	120	112	134	140	140	60	196	340	508	160	M12	20	110	61
IL65/140-2.2/4	65	120	112	134	140	140	60	196	340	570	160	M12	20	110	70
IL65/170-1.1/4	65	110	127	147	180	195	60	170	430	478	215	M12	20	120	64
IL65/170-1.5/4	65	110	127	147	180	195	60	196	430	517	215	M12	20	120	69
IL65/170-2.2/4	65	110	127	147	180	195	60	196	430	579	215	M12	20	120	75
IL65/170-3/4	65	110	127	147	180	195	60	255	430	639	215	M12	20	120	81
IL65/170-3.7/4	65	110	127	147	180	195	60	255	430	639	215	M12	20	120	81
IL65/220-2.2/4	65	130	150	168	200	225	50	196	475	570	245	M12	20	110	78
IL65/220-3/4	65	130	150	168	200	225	50	255	475	630	245	M12	20	110	84
IL65/220-3.7/4	65	130	150	168	200	225	50	255	475	630	245	M12	20	110	84
IL65/220-4/4	65	130	150	168	200	225	50	255	475	630	245	M12	20	110	84
IL65/220-5.5/4	65	130	150	168	200	225	50	282	475	721	245	M12	20	110	106
IL65/220-7.5/4	65	130	150	168	200	225	50	282	475	721	245	M12	20	110	116
IL65/270-4/4	65	140	174	187	200	215	80	255	475	630	235	M12	20	110	96
IL65/270-5.5/4	65	140	174	187	200	215	80	282	475	721	235	M12	20	120	118
IL65/270-7.5/4	65	140	174	187	200	215	80	282	475	721	235	M12	20	120	128
IL65/270-11/4	65	140	174	187	200	215	80	319	475	761	235	M12	20	120	195
IL65/270-15/4	65	140	174	187	200	215	80	319	475	761	235	M12	20	120	210
IL80/140-0.75/4	80	105	123	151	180	173	57	170	400	485	200	M12	20	110	60
IL80/140-1.1/4	80	105	123	151	180	173	57	170	400	485	200	M12	20	110	65
IL80/140-1.5/4	80	105	123	151	180	173	57	196	400	525	200	M12	20	110	70
IL80/140-2.2/4	80	105	123	151	180	173	57	196	400	587	200	M12	20	110	79
IL80/170-1.5/4	80	120	136	162	180	173	72	196	440	514	200	M12	20	120	78
IL80/170-2.2/4	80	120	136	162	180	173	72	196	440	576	200	M12	20	120	81
IL80/170-3/4	80	120	136	162	180	173	72	255	440	636	200	M12	20	120	87
IL80/170-3.7/4	80	120	136	162	180	173	72	255	440	636	200	M12	20	120	87
IL80/170-4/4	80	120	136	162	180	173	72	255	440	636	200	M12	20	120	87
IL80/220-3/4	80	145	157	182	220	208	62	255	500	637	230	M12	20	120	95
IL80/220-3.7/4	80	145	157	182	220	208	62	255	500	637	230	M12	20	120	95
IL80/220-4/4	80	145	157	182	220	208	62	255	500	637	230	M12	20	120	95
IL80/220-5.5/4	80	145	157	182	220	208	62	282	500	728	230	M12	20	120	117
IL80/220-7.5/4	80	145	157	182	220	208	62	282	500	728	230	M12	20	120	127
IL80/270-5.5/4	80	125	180	202	240	223	102	282	500	729	245	M12	20	115	131
IL80/270-7.5/4	80	125	180	202	240	223	102	282	500	729	245	M12	20	115	141
IL80/270-11/4	80	125	180	202	240	223	102	319	500	810	245	M12	20	135	213
IL80/270-15/4	80	125	180	202	240	223	102	319	500	810	245	M12	20	135	228
IL100/170-2.2/4	100	120	158	196	200	226	60	196	500	611	250	M12	20	135	91
IL100/170-3/4	100	120	158	196	200	226	60	255	500	671	250	M12	20	135	97
IL100/170-3.7/4	100	120	158	196	200	226	60	255	500	671	250	M12	20	135	97

In-Line Pumps

# In-Line Pumps

IL Series

IL Series

외형치수

외형치수 4pole

Model	DN	a	b <sub>1</sub>	b <sub>2</sub>	c	e	f	∅g	l <sub>0</sub>	~l <sub>1</sub>	m	o	p	x	Weight (kg)
		(mm)													
IL100/170-4/4	100	120	158	196	200	226	60	255	500	671	250	M12	20	135	97
IL100/170-5.5/4	100	120	158	196	200	226	60	282	500	751	250	M12	20	135	119
IL100/170-7.5/4	100	120	158	196	200	226	60	282	500	751	250	M12	20	135	129
IL100/175-2.2/4	100	120	158	196	200	226	60	196	500	611	250	M12	20	135	91
IL100/175-3/4	100	120	158	196	200	226	60	255	500	671	250	M12	20	135	97
IL100/175-3.7/4	100	120	158	196	200	226	60	255	500	671	250	M12	20	135	97
IL100/175-4/4	100	120	158	196	200	226	60	255	500	671	250	M12	20	135	97
IL100/175-5.5/4	100	120	158	196	200	226	60	282	500	751	250	M12	20	135	119
IL100/220-3.7/4	100	155	173	202	220	231	99	255	550	647	255	M12	20	110	112
IL100/220-4/4	100	155	173	202	220	231	99	255	550	647	255	M12	20	110	112
IL100/220-5.5/4	100	155	173	202	220	231	99	282	550	738	255	M12	20	120	134
IL100/220-7.5/4	100	155	173	202	220	231	99	282	550	738	255	M12	20	120	144
IL100/220-11/4	100	155	173	202	220	231	99	319	550	819	255	M12	20	120	211
IL100/220-15/4	100	155	173	202	220	231	99	319	550	819	255	M12	20	120	226
IL100/270-11/4	100	180	188	214	240	236	114	319	550	819	260	M12	20	120	234
IL100/270-15/4	100	180	188	214	240	236	114	319	550	819	260	M12	20	120	250
IL100/270-18.5/4	100	180	188	214	240	236	114	359	550	842	260	M12	20	120	295
IL100/270-22/4	100	180	188	214	240	236	114	359	550	842	260	M12	20	120	310
IL100/275-11/4	100	180	197	227	240	246	104	319	550	819	270	M12	20	120	234
IL100/275-15/4	100	180	197	227	240	246	104	319	550	819	270	M12	20	120	250
IL100/275-18.5/4	100	180	197	227	240	246	104	359	550	842	270	M12	20	120	295
IL100/345-18.5/4	100	170	229	255	280	326	140	359	700	869	350	M16	25	140	330
IL100/345-22/4	100	170	229	255	280	326	140	359	700	869	350	M16	25	140	345
IL100/345-30/4	100	170	229	255	280	326	140	359	700	929	350	M16	25	140	392
IL100/345-37/4	100	170	229	255	280	326	140	406	700	1160	350	M16	25	140	476
IL125/170-3.7/4	125	175	182	226	240	285	65	255	620	657	310	M16	25	135	126
IL125/170-4/4	125	175	182	226	240	285	65	255	620	657	310	M16	25	135	126
IL125/170-5.5/4	125	175	182	226	240	285	65	282	620	737	310	M16	25	135	148
IL125/170-7.5/4	125	175	182	226	240	285	65	282	620	737	310	M16	25	135	158
IL125/220-5.5/4	125	175	177	212	280	266	54	282	620	751	280	M16	25	120	152
IL125/220-7.5/4	125	175	177	212	280	266	54	282	620	751	280	M16	25	120	162
IL125/220-11/4	125	175	177	212	280	266	54	319	620	831	280	M16	25	120	229
IL125/220-15/4	125	175	177	212	280	266	54	319	620	831	280	M16	25	120	244
IL125/225-5.5/4	125	175	197	236	250	284	95	282	620	744	310	M16	25	120	155
IL125/225-7.5/4	125	175	197	236	250	284	95	282	620	744	310	M16	25	120	165
IL125/225-11/4	125	175	197	236	250	284	95	319	620	826	310	M16	25	120	232
IL125/225-15/4	125	175	197	236	250	284	95	319	620	826	310	M16	25	120	247
IL125/270-15/4	125	200	232	264	250	254	125	319	620	831	280	M16	25	130	276
IL125/270-18.5/4	125	200	232	264	250	254	125	359	620	855	280	M16	25	130	321
IL125/270-22/4	125	200	232	264	250	254	125	359	620	855	280	M16	25	130	336
IL125/270-30/4	125	200	232	264	250	254	125	359	620	931	280	M16	25	130	400
IL125/275-15/4	125	200	202	248	250	284	95	319	620	831	310	M16	25	130	276
IL125/275-18.5/4	125	200	202	248	250	284	95	359	620	855	310	M16	25	130	321
IL125/275-22/4	125	200	202	248	250	284	95	359	620	855	310	M16	25	130	336
IL125/275-30/4	125	200	202	248	250	284	95	359	620	931	310	M16	25	130	400
IL125/340-22/4	125	185	238	270	280	315	140	359	700	882	340	M16	25	140	370
IL125/340-30/4	125	185	238	270	280	315	140	359	700	941	340	M16	25	140	435
IL125/340-37/4	125	185	238	270	280	315	140	406	700	1172	340	M16	25	140	520
IL125/340-45/4	125	185	238	270	280	315	140	406	700	1172	340	M16	25	140	540
IL125/340-55/4	125	185	238	270	280	315	140	454	700	1232	340	M16	25	140	600
IL150/225-7.5/4	150	200	209	257	260	324	76	282	700	763	350	M16	25	130	202
IL150/225-11/4	150	200	209	257	260	324	76	319	700	844	350	M16	25	130	274
IL150/225-15/4	150	200	209	257	260	324	76	319	700	844	350	M16	25	130	290
IL150/225-18.5/4	150	200	209	257	260	324	76	359	700	867	350	M16	25	130	335
IL150/225-22/4	150	200	209	257	260	324	76	359	700	867	350	M16	25	130	350
IL150/275-18.5/4	150	230	278	320	288	324	126	359	700	887	350	M16	25	135	394
IL150/275-22/4	150	230	278	320	288	324	126	359	700	887	350	M16	25	135	409
IL150/275-30/4	150	230	278	320	288	324	126	359	700	947	350	M16	25	135	464
IL150/275-37/4	150	230	278	320	288	324	126	406	700	1146	350	M16	25	135	549
IL150/345-37/4	150	230	300	337	300	359	135	406	770	1185	385	M16	25	145	565
IL150/345-45/4	150	230	300	337	300	359	135	406	770	1185	385	M16	25	145	585
IL150/345-55/4	150	230	300	337	300	359	135	454	770	1245	385	M16	25	145	680
IL150/345-75/4	150	230	300	337	300	359	135	510	770	1295	385	M16	25	145	820
IL200/270-22/4	200	245	281	362	330	270	165	359	800	911	370	M16	25	140	466
IL200/270-30/4	200	245	281	362	330	270	165	359	800	971	370	M16	25	140	523
IL200/270-37/4	200	245	281	362	330	270	165	406	800	1171	370	M16	25	140	613
IL200/270-45/4	200	245	281	362	330	270	165	406	800	1171	370	M16	25	140	633
IL200/270-55/4	200	245	281	362	330	270	165	454	800	1231	370	M16	25	140	693
IL200/275-45/4	200	245	268	335	330	280	155	406	800	1174	380	M16	25	140	633
IL200/275-55/4	200	245	268	335	330	280	155	454	800	1234	380	M16	25	140	693
IL200/275-75/4	200	245	268	335	330	280	155	510	800	1284	380	M16	25	140	833
IL200/345-55/4	200	245	322	370	360	380	170	454	820	1270	410	M16	25	155	750
IL200/345-75/4	200	245	322	370	360	380	170	510	820	1320	410	M16	25	155	890
IL200/345-90/4	200	245	322	370	360	380	170	510	820	1320	410	M16	25	155	920

### IL Series 외형치수

#### 외형치수 2pole

Model	DN	a	b <sub>1</sub>	b <sub>2</sub>	c	e	f	Øg	l <sub>0</sub>	~l <sub>1</sub>	m	o	p	x	Weight (kg)
		(mm)													
IL32/170-1.5/2	32	100	112	124	120	132	68	196	320	489	155	M10	20	90	44
IL32/170-2.2/2	32	100	112	124	120	132	68	196	320	489	155	M10	20	90	49
IL32/170-3/2	32	100	112	124	120	132	68	196	320	553	155	M10	20	90	53
IL32/170-3.7/2	32	100	112	124	120	132	68	196	320	553	155	M10	20	90	57
IL32/170-4/2	32	100	112	124	120	132	68	196	320	553	155	M10	20	90	58
IL32/170-5.5/2	32	100	112	124	120	132	68	253	320	611	155	M10	20	90	68
IL32/170-7.5/2	32	100	112	124	120	132	68	253	320	611	155	M10	20	90	73
IL40/170-3/2	40	82	113	129	130	149	58	196	340	567	170	M10	20	95	56
IL40/170-3.7/2	40	82	113	129	130	149	58	196	340	567	170	M10	20	95	60
IL40/170-4/2	40	82	113	129	130	149	58	196	340	567	170	M10	20	95	61
IL40/170-5.5/2	40	82	113	129	130	149	58	253	340	625	170	M10	20	95	85
IL40/170-7.5/2	40	82	113	129	130	149	58	253	340	625	170	M10	20	95	90
IL40/170-11/2	40	82	113	129	130	149	58	284	340	759	170	M10	20	95	112
IL40/220-7.5/2	40	110	145	149	180	172	78	253	440	629	190	M10	20	100	93
IL40/220-11/2	40	110	145	149	180	172	78	284	440	755	190	M10	20	100	115
IL40/220-15/2	40	110	145	149	180	172	78	284	440	755	190	M10	20	100	124
IL40/220-18.5/2	40	110	145	149	180	172	78	319	440	791	190	M10	20	100	180
IL40/220-22/2	40	110	145	149	180	172	78	319	440	791	190	M10	20	100	180
IL50/140-2.2/2	50	105	102	119	140	130	40	196	340	495	150	M10	20	100	48
IL50/140-3/2	50	105	102	119	140	130	40	196	340	557	150	M10	20	100	54
IL50/140-3.7/2	50	105	102	119	140	130	40	196	340	557	150	M10	20	100	58
IL50/140-4/2	50	105	102	119	140	130	40	196	340	557	150	M10	20	100	58
IL50/170-5.5/2	50	103	120	139	164	143	48	253	340	633	170	M10	20	100	98
IL50/170-7.5/2	50	103	120	139	164	143	48	253	340	633	170	M10	20	100	103
IL50/170-11/2	50	103	120	139	164	143	48	284	340	767	170	M10	20	100	125
IL50/170-15/2	50	120	145	150	160	170	70	284	340	801	190	M10	20	100	114
IL50/220-7.5/2	50	120	145	150	160	170	70	253	440	630	190	M10	20	100	118
IL50/220-11/2	50	120	145	150	160	170	70	284	440	756	190	M10	20	100	140
IL50/220-15/2	50	120	145	150	160	170	70	284	440	756	190	M10	20	100	149
IL50/220-18.5/2	50	120	145	150	160	170	70	319	440	792	190	M10	20	100	205
IL50/220-22/2	50	120	145	150	160	170	70	319	440	792	190	M10	20	100	205
IL50/220-30/2	50	120	145	150	160	170	70	365	440	844	190	M10	20	100	285
IL50/270-30/2	50	122	174	178	200	200	70	365	440	858	220	M10	20	120	310
IL50/270-37/2	50	122	174	178	200	200	70	406	440	991	220	M10	20	120	375
IL50/270-45/2	50	122	174	178	200	200	70	406	440	1091	220	M10	20	120	415
IL65/140-4/2	65	120	112	134	140	140	60	196	340	571	160	M12	20	110	63
IL65/140-5.5/2	65	120	112	134	140	140	60	253	340	634	160	M12	20	110	86
IL65/140-7.5/2	65	120	112	134	140	140	60	253	340	634	160	M12	20	110	91
IL65/140-11/2	65	120	112	134	140	140	60	284	340	768	160	M12	20	110	113
IL65/140-15/2	65	120	112	134	140	140	60	284	340	768	160	M12	20	110	122
IL65/140-18.5/2	65	120	112	134	140	140	60	319	340	804	160	M12	20	110	178
IL65/170-7.5/2	65	110	127	147	180	195	60	253	430	638	215	M12	20	120	108
IL65/170-11/2	65	110	127	147	180	195	60	284	430	772	215	M12	20	120	130
IL65/170-15/2	65	110	127	147	180	195	60	284	430	772	215	M12	20	120	139
IL65/170-18.5/2	65	110	127	147	180	195	60	319	430	808	215	M12	20	120	195
IL65/170-22/2	65	110	127	147	180	195	60	319	430	808	215	M12	20	120	195
IL65/220-18.5/2	65	130	150	168	200	225	50	319	475	802	245	M12	20	110	215
IL65/220-22/2	65	130	150	168	200	225	50	319	475	802	245	M12	20	110	215
IL65/220-30/2	65	130	150	168	200	225	50	365	475	843	245	M12	20	110	305
IL65/220-37/2	65	130	150	168	200	225	50	406	475	976	245	M12	20	110	370
IL80/140-5.5/2	80	105	123	151	180	173	57	253	400	652	200	M12	20	120	94
IL80/140-7.5/2	80	105	123	151	180	173	57	253	400	652	200	M12	20	120	99
IL80/140-11/2	80	105	123	151	180	173	57	284	400	786	200	M12	20	120	121
IL80/140-15/2	80	105	123	151	180	173	57	284	400	786	200	M12	20	120	130
IL80/140-18.5/2	80	105	123	151	180	173	57	319	400	822	200	M12	20	120	186
IL80/170-11/2	80	120	136	162	180	173	72	284	440	769	200	M12	20	120	147
IL80/170-15/2	80	120	136	162	180	173	72	284	440	769	200	M12	20	120	156
IL80/170-18.5/2	80	120	136	162	180	173	72	319	440	805	200	M12	20	120	212
IL80/170-22/2	80	120	136	162	180	173	72	319	440	805	200	M12	20	120	212
IL80/170-30/2	80	120	136	162	180	173	72	365	440	846	200	M12	20	120	297
IL80/220-22/2	80	145	157	182	220	208	62	319	500	809	230	M12	20	120	223
IL80/220-30/2	80	145	157	182	220	208	62	365	500	850	230	M12	20	120	313
IL80/220-37/2	80	145	157	182	220	208	62	406	500	983	230	M12	20	120	423
IL80/220-45/2	80	145	157	182	220	208	62	406	500	1083	230	M12	20	120	463
IL100/170-22/2	100	120	158	196	200	226	60	319	500	840	250	M12	20	135	217
IL100/170-30/2	100	120	158	196	200	226	60	365	500	881	250	M12	20	135	302
IL100/170-37/2	100	120	158	196	200	226	60	406	500	1014	250	M12	20	135	412
IL100/170-45/2	100	120	158	196	200	226	60	406	500	1114	250	M12	20	135	452
IL100/220-37/2	100	155	173	202	220	231	99	406	550	993	255	M12	20	110	438
IL100/220-45/2	100	155	173	202	220	231	99	406	550	1093	255	M12	20	110	478



# In-Line Pumps

## IL Series

### IL Series

외형치수

#### 외형치수 6pole

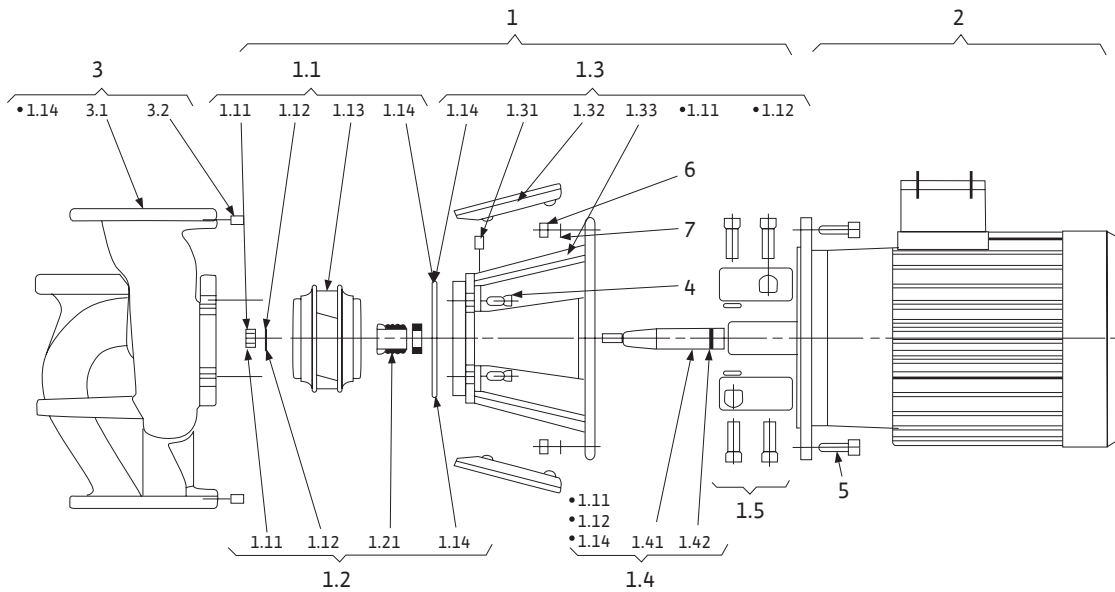
Model	DN	a	b <sub>1</sub>	b <sub>2</sub>	c	e	f	∅g	l <sub>0</sub>	~l <sub>1</sub>	m	o	p	x	Weight (kg)
		(mm)													
IL32/170-0.4/6	32	100	112	124	120	132	68	175	320	436	155	M10	20	90	44
IL40/170-0.4/6	40	82	113	129	130	149	58	175	340	450	170	M10	20	95	47
IL40/170-0.55/6	40	82	113	129	130	149	58	193	340	516	170	M10	20	95	52
IL50/170-0.4/6	50	103	120	139	164	143	48	175	340	456	170	M10	20	100	51
IL50/170-0.55/6	50	103	120	139	164	143	48	193	340	522	170	M10	20	100	56
IL50/170-0.75/6	50	103	120	139	164	143	48	193	340	522	170	M10	20	100	60
IL65/170-0.4/6	65	110	127	147	180	195	60	175	430	462	215	M12	20	120	57
IL65/170-0.55/6	65	110	127	147	180	195	60	193	430	528	215	M12	20	120	62
IL65/170-0.75/6	65	110	127	147	180	195	60	193	430	528	215	M12	20	120	66
IL65/170-1.1/6	65	110	127	147	180	195	60	236	430	593	215	M12	20	120	74
IL80/170-0.4/6	80	120	136	162	180	173	72	175	440	460	200	M12	20	120	66
IL80/170-0.55/6	80	120	136	162	180	173	72	193	440	526	200	M12	20	120	71
IL80/170-0.75/6	80	120	136	162	180	173	72	193	440	526	200	M12	20	120	75
IL80/170-1.1/6	80	120	136	162	180	173	72	236	440	589	200	M12	20	120	85
IL80/170-1.5/6	80	120	136	162	180	173	72	236	440	589	200	M12	20	120	89
IL100/170-1.1/6	100	120	158	196	200	226	60	236	500	623	250	M12	20	135	98
IL100/170-1.5/6	100	120	158	196	200	226	60	236	500	623	250	M12	20	135	102
IL100/170-2.2/6	100	120	158	196	200	226	60	236	500	623	250	M12	20	135	106
IL125/170-1.1/6	125	175	182	226	240	285	65	236	620	610	310	M16	25	130	119
IL125/170-1.5/6	125	175	182	226	240	285	65	236	620	610	310	M16	25	130	123
IL125/170-2.2/6	125	175	182	226	240	285	65	236	620	610	310	M16	25	130	127
IL150/225-3.7/6	150	200	209	257	260	324	76	274	700	702	350	M16	25	130	194
IL150/225-5.5/6	150	200	209	257	260	324	76	274	700	702	350	M16	25	130	204
IL150/225-7.5/6	150	200	209	257	260	324	76	317	700	793	350	M16	25	130	274
IL200/270-7.5/6	200	245	281	362	330	270	165	317	800	836	370	M16	30	140	395
IL200/270-11/6	200	245	281	362	330	270	165	365	800	899	370	M16	30	140	466
IL200/270-15/6	200	245	281	362	330	270	165	365	800	946	370	M16	30	140	481

# In-Line Pumps

IL Series

wilo

IL Series 분해도



주 기: IL250series는 해당되지 않음

Description and Part Name		Standards	
1 Exchange set complete	1.1 Set impeller with	1.11 Nut	DIN934 A2
		1.12 Plain washer	DIN125 A2
		1.13 Impeller	EN-GJL200
		1.14 O-ring	EPDM
	1.2 Set mechanical seal with	1.11 Nut	DIN934 A2
		1.12 Plain washer	DIN125 A2
		1.14 O-ring	EPDM
		1.21 Mechanical seal complete	AQ1EGG
	1.3 Set lantern with	1.1 Nut	DIN934 A2
		1.12 Plain washer	DIN125 A2
		1.14 O-ring	EPDM
		1.31 Vent screw	CuZn39Pb2
		1.32 Coupling protection cap	PA66
	1.4 Set shaft with	1.11 Nut	DIN934 A2
		1.12 Plain washer	DIN125 A2
1.14 O-ring		EPDM	
1.41 Shaft		1.4122	
1.5 Coupling complete	1.42 Snap ring	DIN7993 A2	
		-	
2 Motor		-	
3 Pumphousing complete with	1.14 O-ring	EPDM	
	3.1 Pump housing	EN-GJL250	
	3.2 Gauge plug	DIN906 8.8	
4 Fixing-screws lantern / pumphousing		DIN912 8.8	
5 Fixing-screws motor / lantern		DIN912 8.8	
6 Fixing-nut motor / lantern		DIN934 8	
7 Plain washer motor / lantern		DIN125 ST	

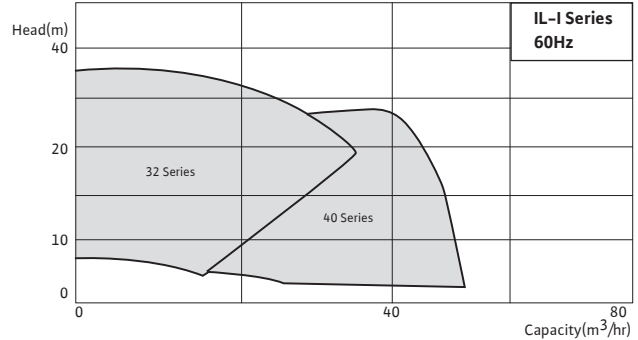
※상기 Data는 Model에 따라 다를 수 있음

# In-Line Pumps

## IL-I Series

제품소개

### IL-I Series



### 모델명

예) IL-I32/135-0.75/2

- IL-I: 스테인레스 스틸 인라인 펌프
- 32/: 흡/토출 구경(mm)
- 135: 임펠러 공칭 외경(mm)
- 0.75: 모터 동력(kW)
- /2: 극수(2극 모터)

### 적용범위

- 빌딩의 냉온수 순환
- 공동주택의 온수 순환
- 급탕 순환
- 쿨링 타워
- 가압, 응축수 시스템

### 기술자료

- 사용액체: VDI 2035에 준하는 온수, 냉수, 냉각용수, 열교환용수, 글리콜 혼합용수(20%, 최대 40%까지 option으로 가능)
- \* VDI 2035: VDI guideline for preventing damage in hot water heating installations.

### 운전 범위

최대 유량: 50m³/hr  
최고 양정: 36m

### 최대허용압력

13 bar에서 +140°C 까지  
16 bar에서 +120°C 까지

사용 온도: -20°C ~ +140°C

주위 온도: 최대 +40°C

축봉장치: 미캐니컬 실

플랜지 PN16(EN1092-1) 1/8" 게이지 태핑

### 모터

- IEC 표준 모터(효율 관리 기자재 운영 규정 만족) 3상, IP55, F종
- 전원사양: 0.4kW~4kW, 220/380V, 60Hz (전압 및 주파수 변경은 옵션)

### 재질 구성

케이싱	Stainless steel
임펠러	Stainless steel
샤프트	Stainless steel
랜턴	Stainless steel
미캐니컬 실	SiC/Carbony/EPDM

### 특장점

스테인레스 스틸 재질 표준 채택  
커플링 연결구조 or Long Shaft 구조

### 케이싱

흡/토출구의 크기가 같은 인라인 펌프 케이싱

### 임펠러

3차원 유동해석을 통한 최적설계  
유체의 저항을 최소화 하여 고효율 실현

모터: IEC 표준 모터 적용으로 높은 호환성

미캐니컬 실 표준 장착

# In-Line Pumps

IL-I Series

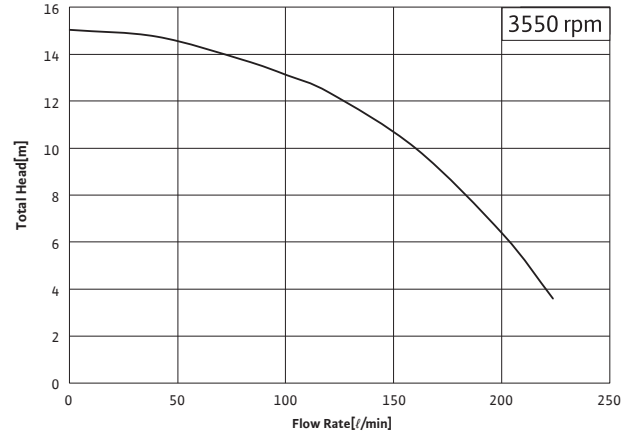
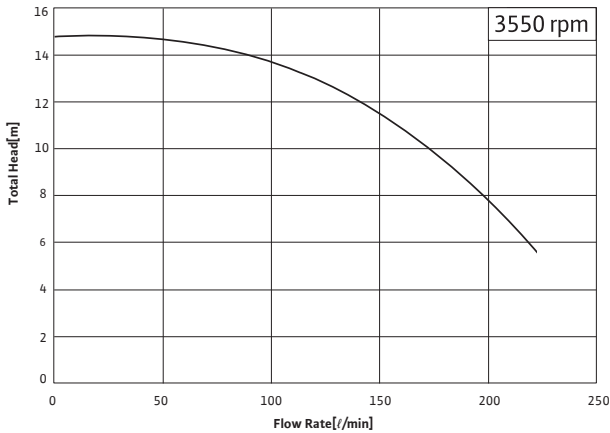
wilo

IL-I Series

성능곡선 2pole

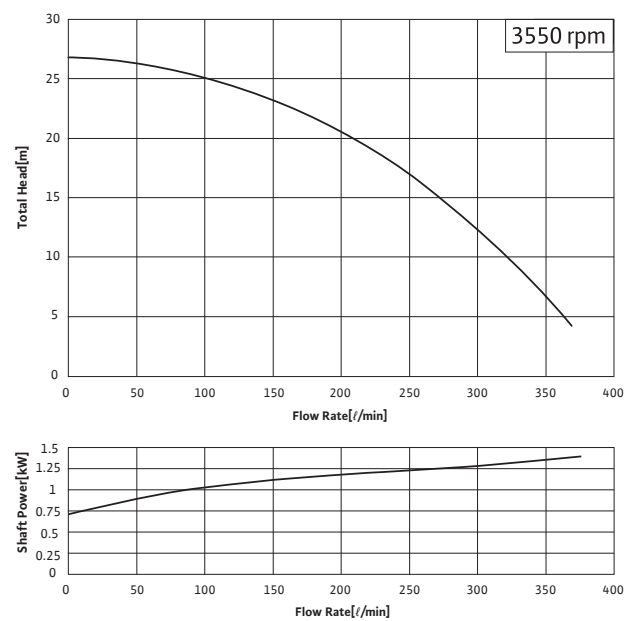
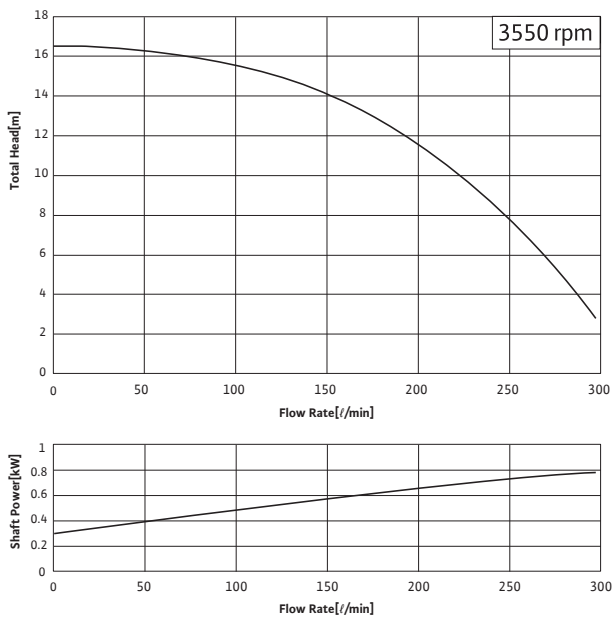
## IL-I32/135-0.55/2 (단상, 220V)

## IL-I32/135-0.75/2



## IL-I40/135-0.75/2

## IL-I40/135-1.5/2



# In-Line Pumps

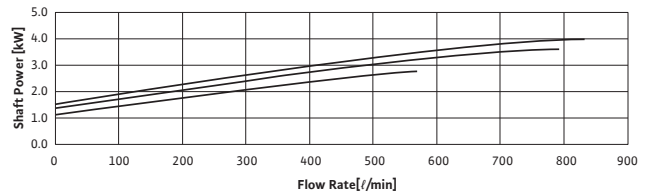
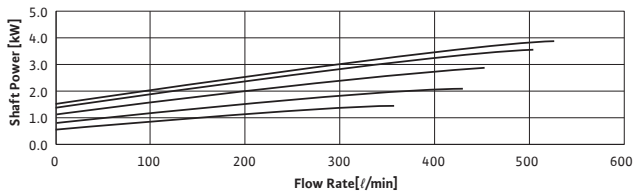
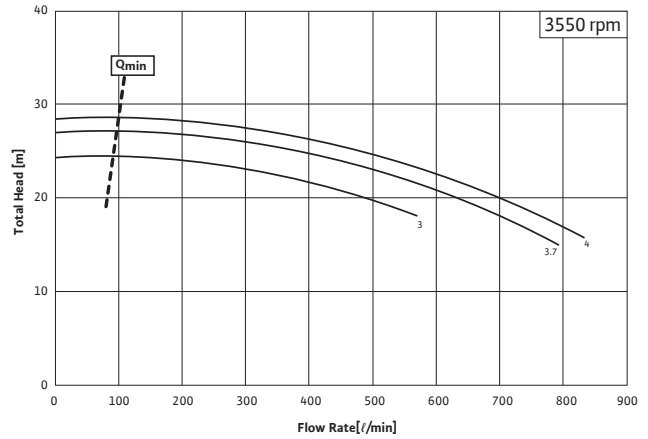
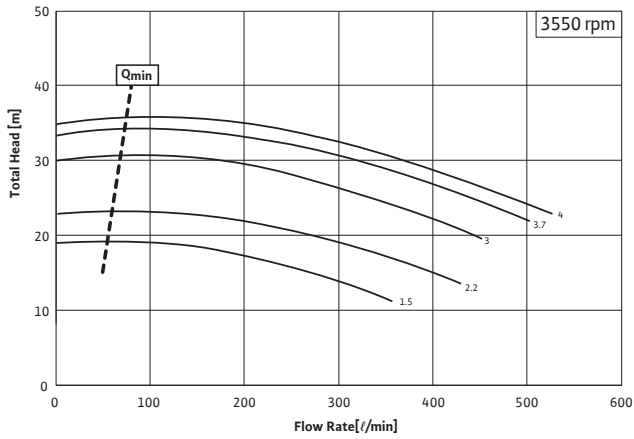
## IL-I Series

### IL-I Series

성능곡선 2pole

#### IL-132/170 Series

#### IL-140/170 Series

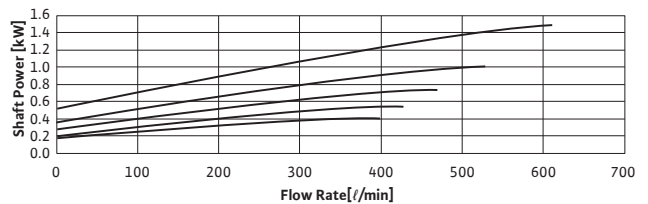
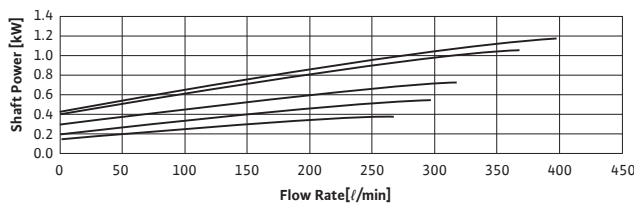
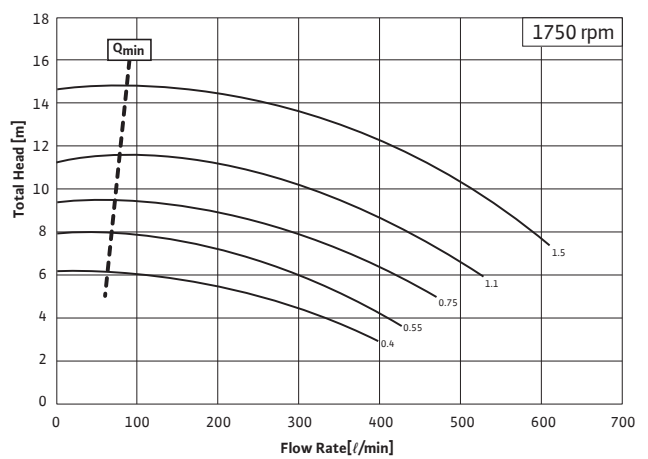
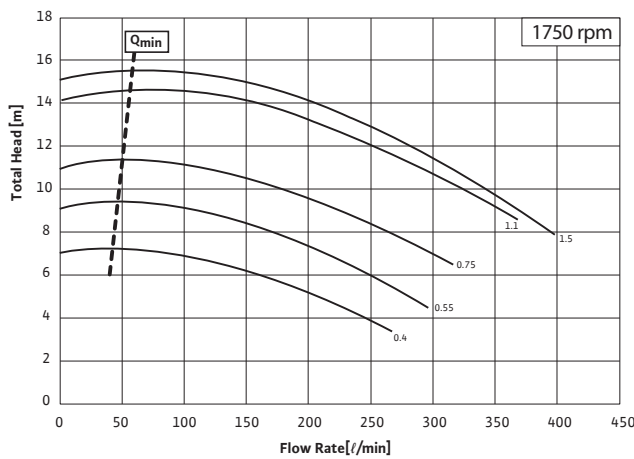


### IL-I Series

성능곡선 4pole

#### IL-132/170 Series

#### IL-140/170 Series



# In-Line Pumps

## IL-I Series



### IL-I Series

외형치수

#### 외형치수 2pole

Model	DN	a	b <sub>1</sub>	b <sub>2</sub>	c	e	f	Øg	I <sub>0</sub>	~I <sub>1</sub>	m	o	p	x	Weight (kg)
		(mm)													
IL-I32/170-1.5/2	32	100	112	124	120	132	68	196	320	489	155	M10	20	90	44
IL-I32/170-2.2/2	32	100	112	124	120	132	68	196	320	489	155	M10	20	90	49
IL-I32/170-3/2	32	100	112	124	120	132	68	196	320	553	155	M10	20	90	53
IL-I32/170-3.7/2	32	100	112	124	120	132	68	196	320	553	155	M10	20	90	57
IL-I32/170-4/2	32	100	112	124	120	132	68	196	320	553	155	M10	20	90	58
IL-I40/170-3/2	40	82	113	129	130	149	58	196	340	567	170	M10	20	90	56
IL-I40/170-3.7/2	40	82	113	129	130	149	58	196	340	567	170	M10	20	90	60
IL-I40/170-4/2	40	82	113	129	130	149	58	196	340	567	170	M10	20	90	61

#### 외형치수 4pole

Model	DN	a	b <sub>1</sub>	b <sub>2</sub>	c	e	f	Øg	I <sub>0</sub>	~I <sub>1</sub>	m	o	p	x	Weight (kg)
		(mm)													
IL-I32/170-0.4/4	32	100	112	124	120	132	68	170	320	451	155	M10	20	90	46
IL-I32/170-0.55/4	32	100	112	124	120	132	68	170	320	451	155	M10	20	90	46
IL-I32/170-0.75/4	32	100	112	124	120	132	68	170	320	451	155	M10	20	90	46
IL-I32/170-1.1/4	32	100	112	124	120	132	68	170	320	451	155	M10	20	90	52
IL-I32/170-1.5/4	32	100	112	124	120	132	68	196	320	490	155	M10	20	90	57
IL-I40/170-0.4/4	40	82	113	129	130	149	58	170	340	455	170	M10	20	95	49
IL-I40/170-0.55/4	40	82	113	129	130	149	58	170	340	465	170	M10	20	95	49
IL-I40/170-0.75/4	40	82	113	129	130	149	58	170	340	465	170	M10	20	95	49
IL-I40/170-1.1/4	40	82	113	129	130	149	58	170	340	465	170	M10	20	95	54
IL-I40/170-1.5/4	40	82	113	129	130	149	58	196	340	504	170	M10	20	95	59

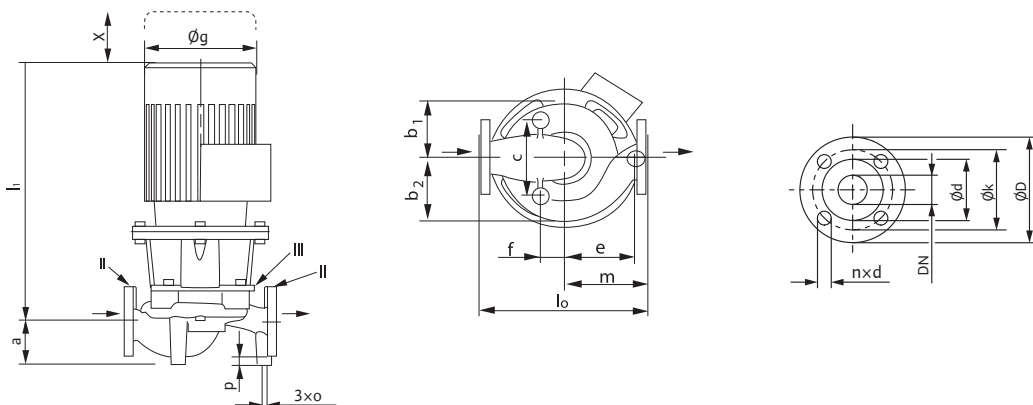
#### 플랜지 규격(Pumphousing Flange EN 1092-1, PN16/PN25)

DN	ØD	Ød	Øk	n × d <sub>t</sub>
	[mm]			Number × mm
32	140	78	100	4 × 18
40	150	88	110	4 × 18

### IL-I Series

외형도

#### 외형도 (IL-I32/170 & IL-I40/170)

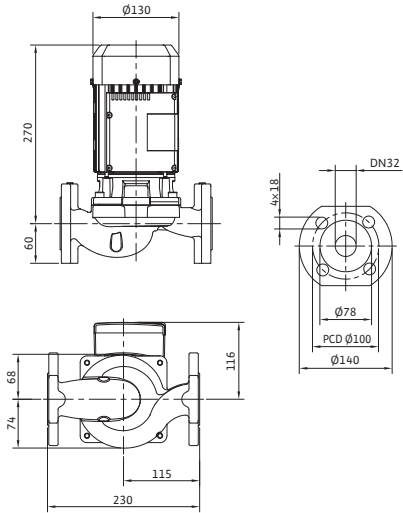


# In-Line Pumps

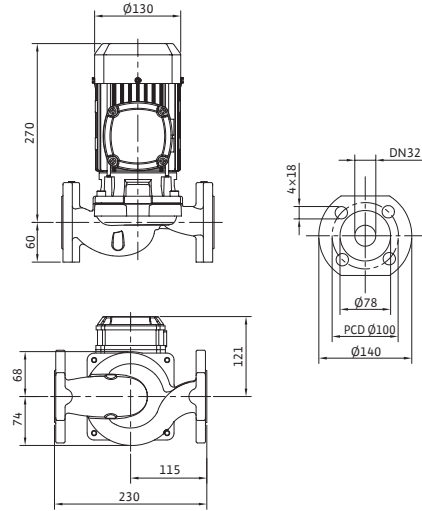
## IL-I Series

### IL-I Series 외형도

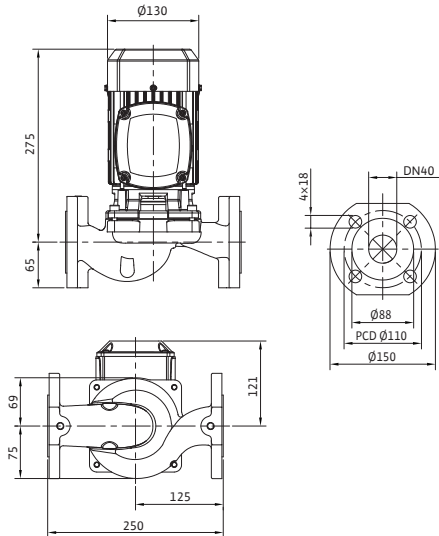
외형도(IL-I32/135-0.55/2)



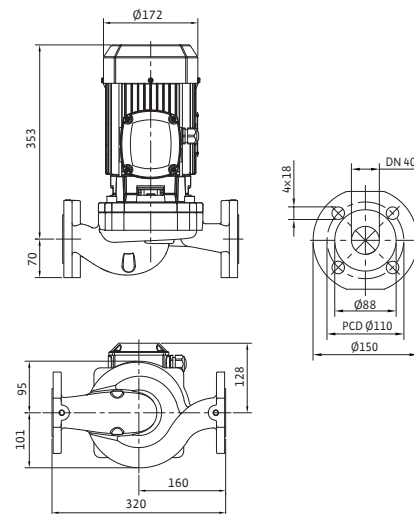
외형도(IL-I32/135-0.75/2)



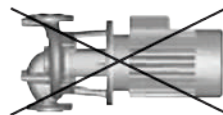
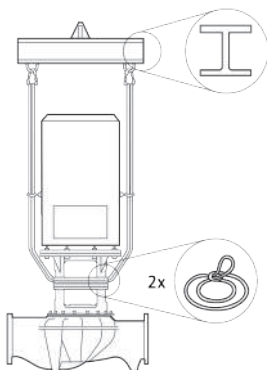
외형도(IL-I40/135-0.75/2)



외형도(IL-I40/135-1.5/2)



## 이동과 설치



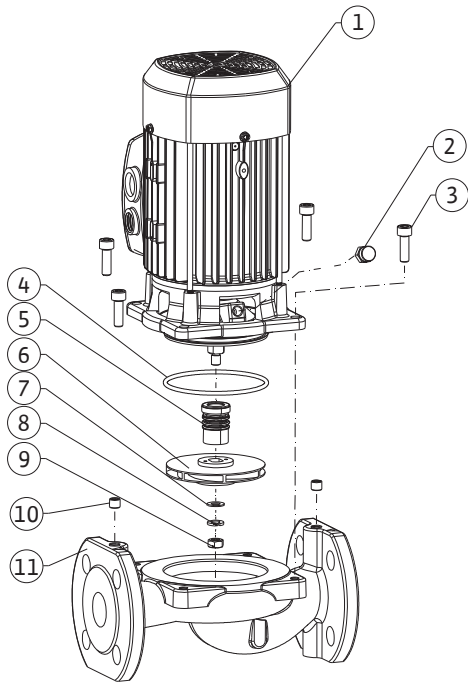
# In-Line Pumps

IL-I Series

wilo

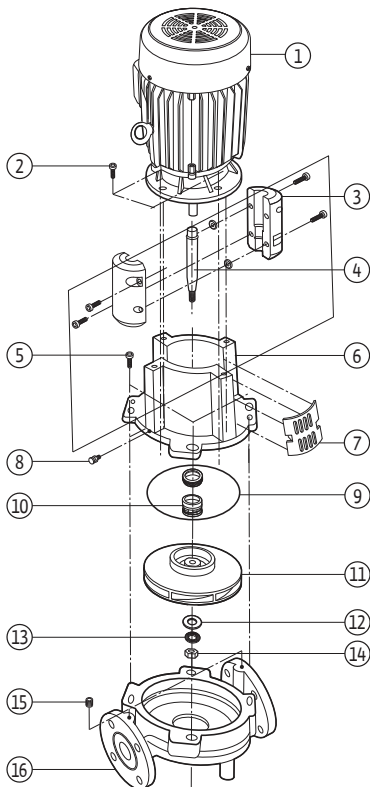
IL-I Series 분해도

## IL-I32/135 & IL-I40/135 Series



부품 List		
품번	품명	재질
1	Motor	-
2	Air vent	STS
3	Bolt	Steel
4	O-ring	EPDM
5	M.Seal	Sic/Carbon-EPDM
6	Impeller	STS
7	Washer	STS
8	Spring washer	STS
9	Nut	STS
10	Plug	STS
11	Pump housing	SSC13(STS)

## IL-I32/170 & IL-I40/170 Series



부품 List		
품번	품명	재질
1	Motor	-
2	Bolt	Steel
3	Coupling	Steel
4	Shaft	STS
5	Bolt	Steel
6	Lantern	SSC13(STS)
7	Cover	Plastic
8	Air vent	STS
9	O-ring	EPPM
10	M.Seal	Sic/Carbon-EPDM
11	Impeller	SSC13(STS)
12	Washer	STS
13	Spring washer	STS
14	Nut	STS
15	Plug	STS
16	Pump housing	SSC13(STS)



# In-Line Pumps

## IL-E Series

제품소개

### IL-E Series



#### 모델명

예) IL-E 50/170-7.5/2

- IL-E: 전자제어 인라인 펌프
- 50/: 흡/토출 구경(mm)
- 170: 임펠러 공칭 외경(mm)
- 7.5: 모터 동력(kW)
- 2: 극수(2극 모터)

#### 적용범위

- 냉난방 및 응축수 시스템과 산업용, 상업용, 농업용 액체 이송 장치에 적용
- 냉수, 냉각수, 온수, 글리콜 혼합용수 (20% 미만), 열교환 용수

#### 기술자료

- 허용유체  
VDI 2035에 적합한 온수  
냉수/냉각수  
글리콜 혼합용수 (20% 미만)  
열 교환용수
- 성능  
속도범위: 750~2900rpm(각 모델 참조)  
온도범위: -20°C~+140°C(글리콜 혼합용수의 온도 ≤40°C)
- 온도에 따른 압력범위: 13bar에서 +140°C까지  
16bar에서 +120°C까지
- 주위온도: 최대 +40°C
- 현장설치  
파이프에 직접 설치  
베이스 플레이트 장착설치 (option 사양)

- 플랜지  
PN 16(EN 1092-2)
- 주 전원  
3~380 V, 50/60Hz  
3~400 V, 50/60Hz  
3~440 V, 50/60Hz
- 모터  
모터보호장치 내장  
보호등급: IP55  
절연등급: F종  
유럽 IE2 Class 모터 적용
- 전자파 보호 규정  
EN 50081-1/EN 50082-2
- 재질 구성  
펌프케이싱 Gray Cast Iron + Cataphoresis Coating  
임펠러 Gray Cast Iron  
랜턴 Gray Cast Iron + Cataphoresis Coating  
샤프트 Stainless Steel  
미캐니컬 실 AQ1EGG

#### 특장점

- $\Delta p$ -c 유량변화에 따른 일정한 압력제어
- $\Delta p$ -v 부하변화에 따른 유량 및 압력제어
- DDC 제어센서에 의한 원격제어 (제어 전원 DC 0-10V)
- 수동 운전 기능
- 운전 및 펌프 상태 표시 기능
- IR 제어기에 의한 리모콘 기능
- 운전 상태 및 알람 상태 접점 출력 기능
- 입력 단자에 의한 정지 기능
- 입력 단자에 아날로그 신호 제어 기능
- WILO-IF 모듈에 따른 듀얼 펌프 제어 및 BMS(Building Management System) 기능

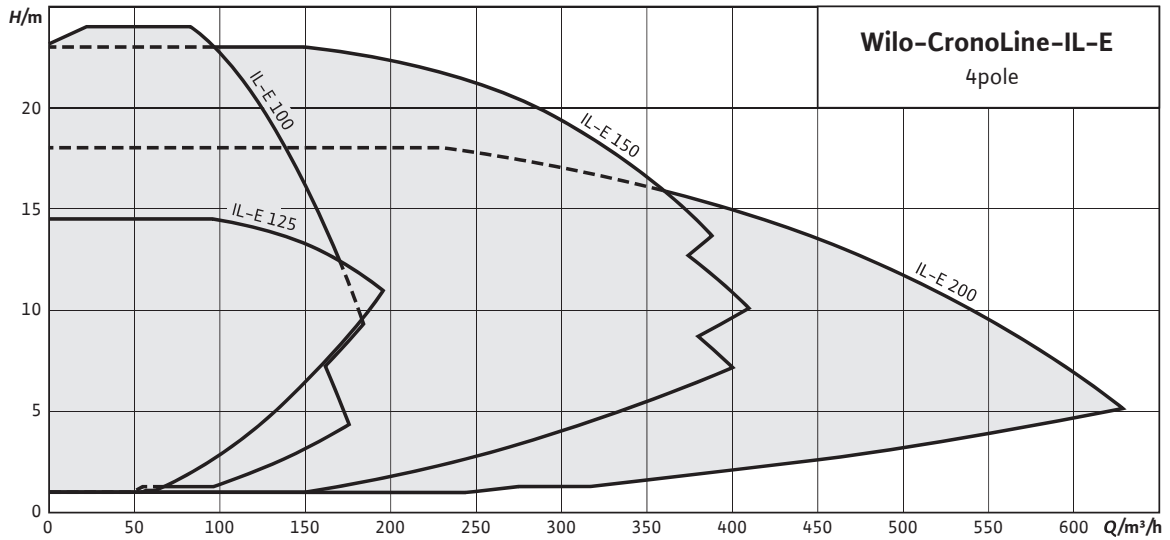
# In-Line Pumps

IL-E Series

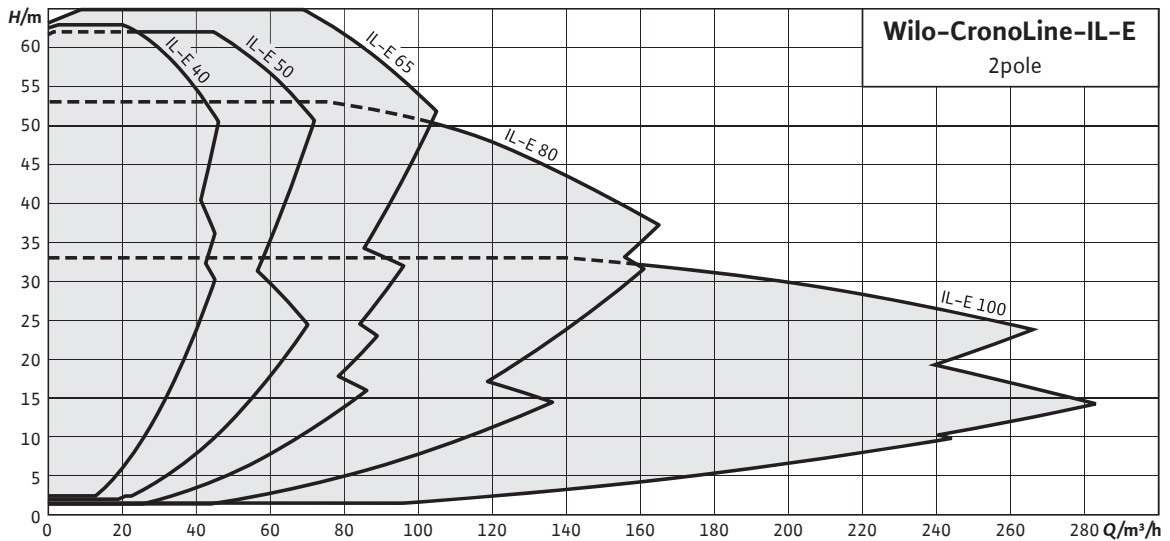
wilo

IL-E Series 선정도

## IL-E (4-pole)



## IL-E (2-pole)



# In-Line Pumps

## DL-E Series

### DL-E Series

제품소개



#### 모델명

예) DL-E 50/170-7.5/2

- DL-E: 듀얼 인라인 전자제어 펌프
- 50/: 흡/토출 구경(mm)      • 170: 임펠러 공칭외경(mm)
- -7.5: 모터 동력(kW)      • /2: 극수(2극 모터)

#### 적용범위

- 냉난방 및 응축수시스템과 산업용, 상업용, 농업용 액체 이송장치에 적용
- 냉수, 냉각수, 온수 글리콜 혼합용수(20% 미만) 열교환용수

#### 기술자료

- 허용유체  
VDI2035에 적합한 온수  
냉수/냉각수  
글리콜 혼합용수(20% 미만)  
열 교환용수
- 성능  
속도범위: 750~2900rpm(각 모델 참조)  
온도범위: -20°C~+140°C(글리콜 혼합용수 온도 ≤40°C)
- 온도에 따른 압력범위: 13bar에서 +140°C까지  
16bar에서 +120°C까지
- 주위온도  
최대 +40°C
- 현장설치  
파이프에 직접 설치  
베이스 플레이트 장착 설치(option사양)
- 플랜지 PN16(EN 1092-2)

#### 주 전원

- 3~380 V, 50/60Hz
- 3~400 V, 50/60Hz
- 3~440 V, 50/60Hz

#### 모터

- 모터보호장치 내장
- 보호등급: IP55
- 절연등급: F종
- 유럽 IE2 Class 모터 적용

#### 전자파 보호 규정

EN 50081-1/EN 50082-2

#### 재질 구성

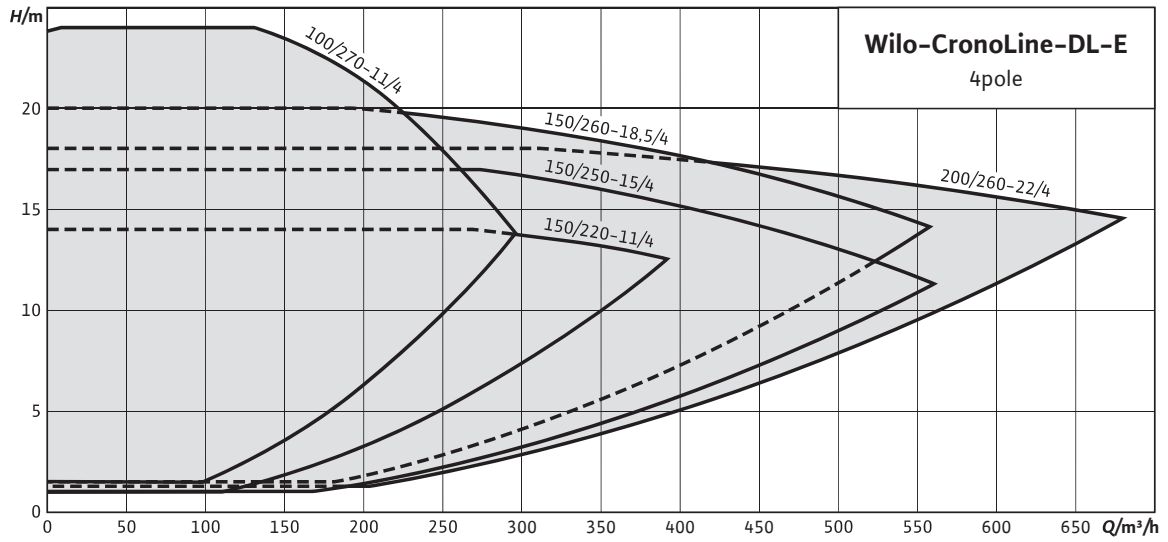
- |        |                                       |
|--------|---------------------------------------|
| 펌프케이싱  | Gray Cast Iron + Cataphoresis Coating |
| 임펠러    | Gray Cast Iron                        |
| 랜턴     | Gray Cast Iron + Cataphoresis Coating |
| 샤프트    | Stainless Steel                       |
| 미캐니컬 실 | AQ1EGG                                |

#### 특장점

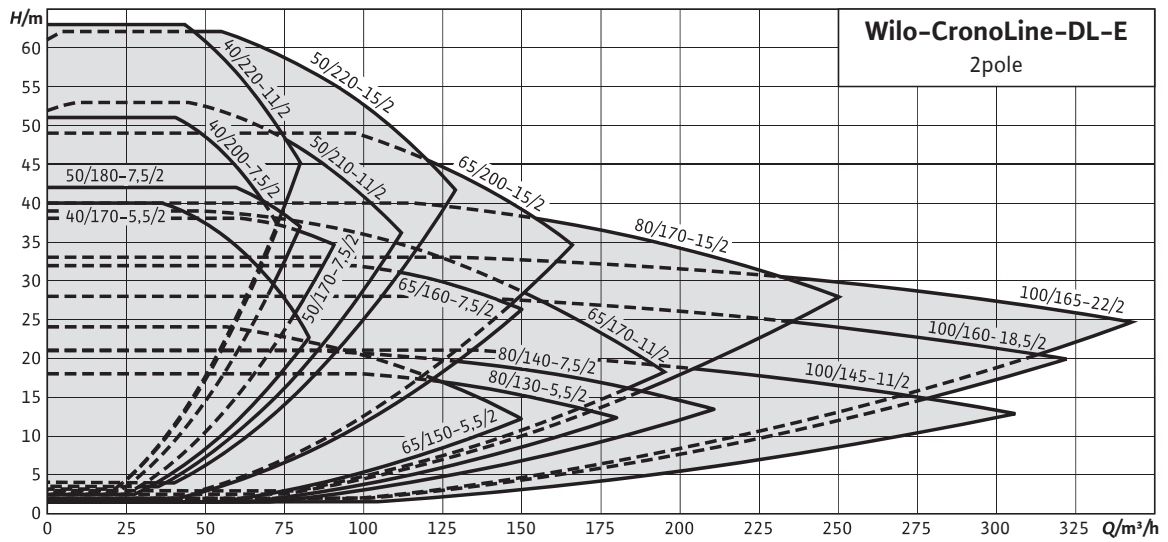
- $\Delta p$ -c 유량변화에 따른 일정한 압력제어
- $\Delta p$ -v 부하변화에 따른 유량 및 압력제어
- DDC 제어센서에 의한 원격제어(제어 전원 DC 0-10V)
- 수동 운전 기능
- 운전 및 펌프 상태 표시 기능
- IR 제어기에 의한 리모콘 기능
- 운전 상태 및 알람 상태 점점 출력 기능
- 입력 단자에 의한 정지 기능
- 입력 단자에 아날로그 신호 제어 기능
- WILO-IF 모듈에 따른 듀얼 펌프 제어 및 BMS(Building Management System) 기능

### DL-E Series

#### DL-E (4-pole)



#### DL-E (2-pole)



# In-Line Pumps

## IPL Series

제품소개

### IPL Series



#### 모델명

예) IPL 40/160-1.5/2

- IPL: 저압인라인 펌프
- 40/: 흡/토출 구경(mm)
- 160: 임펠러 공칭 외경(mm)
- -1.5: 모터 동력(kW)
- /2: 극수(2극 모터)

#### 적용범위

- 빌딩의 냉온수 순환
- 공동주택의 온수 순환
- 급탕 순환
- 패키지 시스템
- 가압, 응축수 시스템

#### 기술자료

- 사용액체  
VDI2035에 준하는 온수, 냉수, 냉각용수, 열교환 용수, 글리콜 혼합용수(20%미만)
- 운전 범위  
최대 유량: 70m<sup>3</sup>/hr  
최고 양정: 28m
- 최대허용압력  
10bar
- 사용 온도  
-10°C~ +120°C

- 주위 온도  
최대 +40°C
- 축봉장치  
미캐니컬 실
- 플랜지  
PN16 (EN1092-2)  
1/8" 게이지 태핑
- 모터  
효율관리 기자재 운용 규정 만족 전동기  
3상, IP55, F종
- 재질  
케이싱            Gray CastIron + Cataphoresis Coating  
임펠러            Engineering Plastic  
샤프트            Stainless Steel  
랜턴                Gray CastIron + Cataphoresis Coating  
미캐니컬 실      AQ1EGG
- \* 16bar option 가능

#### 특장점

- 구조  
Closed-coupled type
- 케이싱  
흡/토출구의 크기가 같은 인라인 펌프케이싱  
전착도장 적용으로 내부식성 강화
- 임펠러  
3차원 유동해석을 통한 최적설계  
유체의 저항을 최소화하여 고효율 실현
- 모터  
효율 관리 기자재 운용 규정 만족
- 미캐니컬 실  
표준 미캐니컬 실 장착

# In-Line Pumps

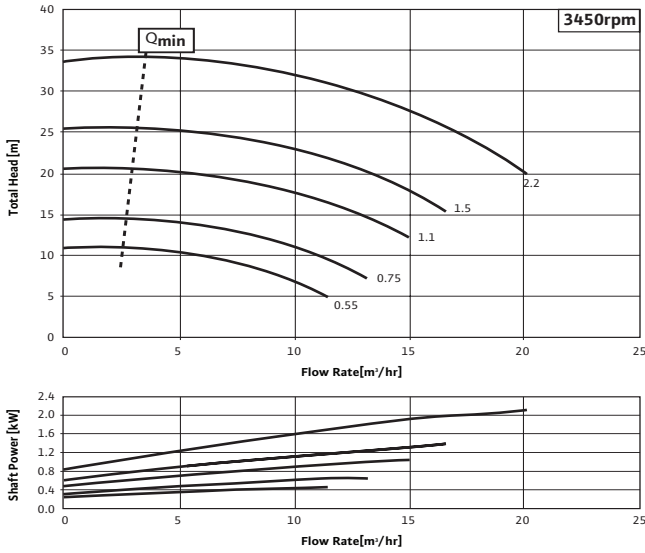
IPL Series

wilo

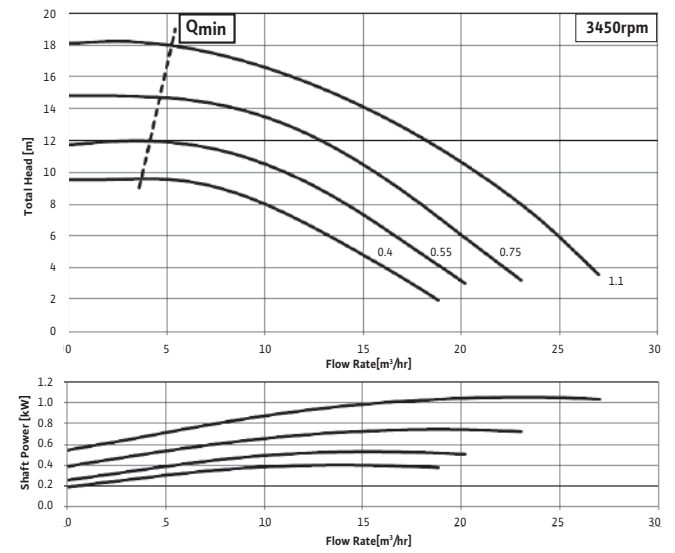
IPL Series

성능곡선 2pole

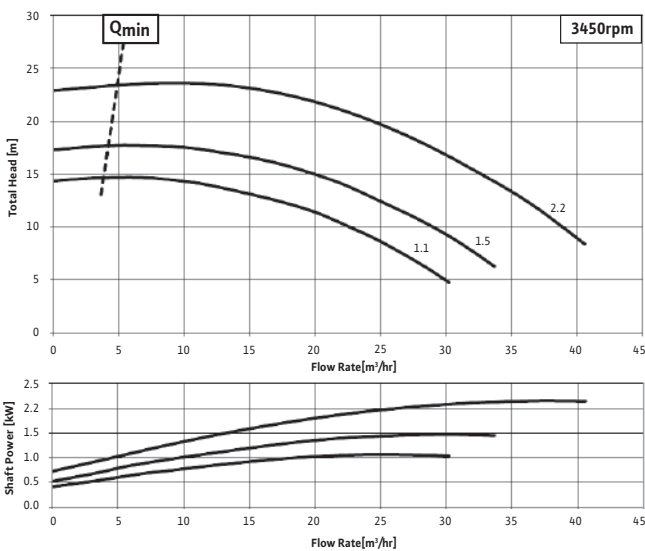
## IPL 32/135 Series



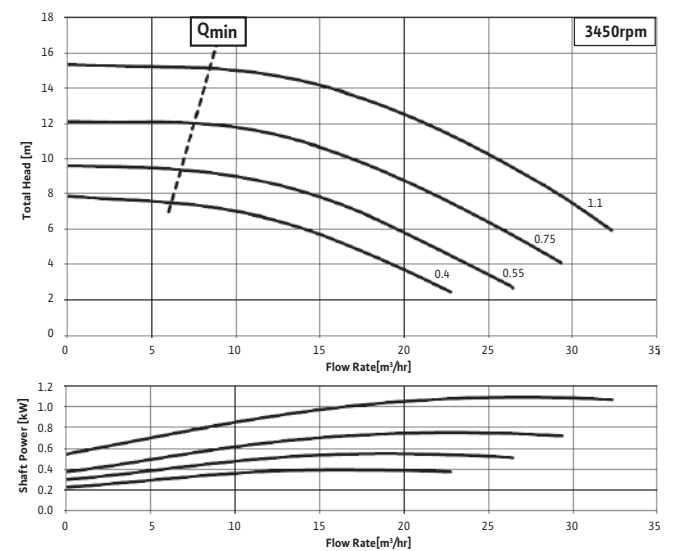
## IPL 40/110 Series



## IPL 40/160 Series



## IPL 50/110 Series



In-Line Pumps

# In-Line Pumps

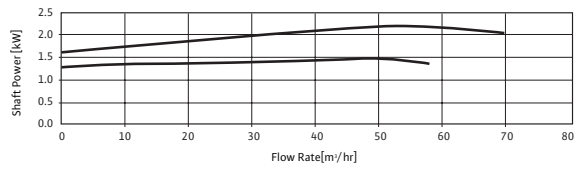
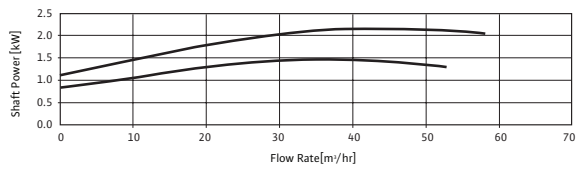
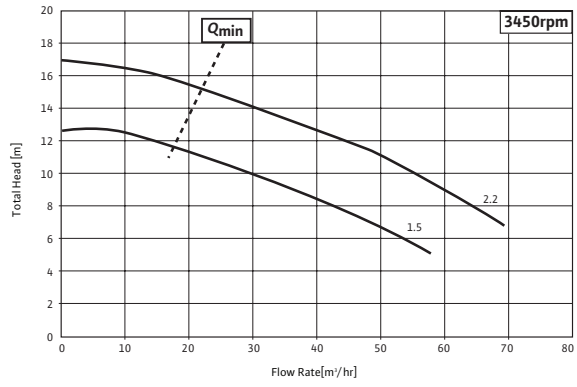
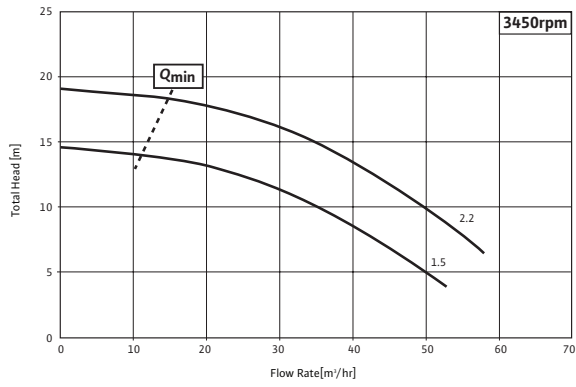
## IPL Series

### IPL Series

성능곡선 2pole

### IPL 65/110 Series

### IPL 80/110 Series



# In-Line Pumps

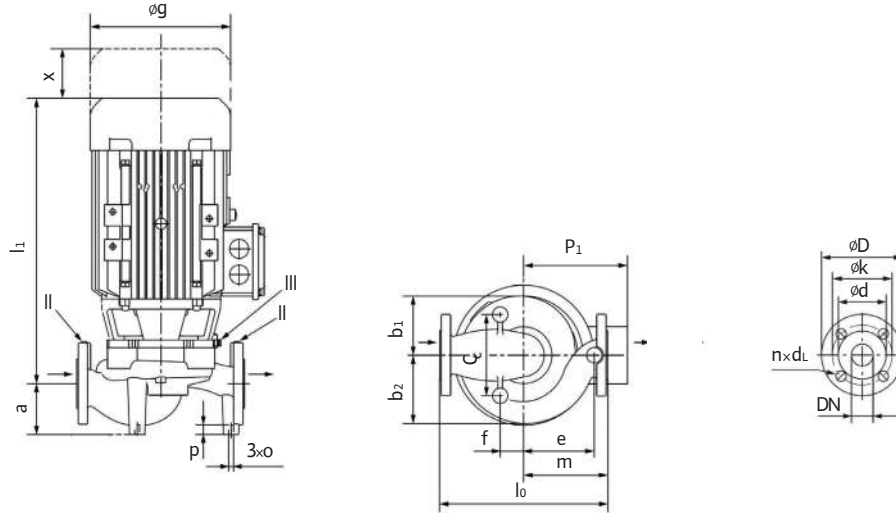
IPL Series

wilo

IPL Series

외형도 및 치수

외형도



II GAUGE TAPPINGS 1/8"  
III VENT PLUG 1/8"

외형치수

Model	DN	a	b <sub>1</sub>	b <sub>2</sub>	c	e	f	$\phi g$	l <sub>0</sub>	~l <sub>1</sub>	m	o	p	P <sub>1</sub>	x	~net weight
		[mm]														[kg]
IPL32/135-0.55/2	32	70	101	106	90	40	50	130	260	321	130	M10	20	121	150	20
IPL32/135-0.75/2	32	70	101	106	90	40	50	146	260	341	130	M10	20	128	150	22
IPL32/135-1.1/2	32	70	101	106	90	40	50	146	260	341	130	M10	20	128	150	23
IPL32/135-1.5/2	32	70	101	106	90	40	50	172	260	379	130	M10	20	150	150	28
IPL32/135-2.2/2	32	70	101	106	90	40	50	172	260	379	130	M10	20	150	150	30
IPL40/110-0.4/2	40	65	80	90	-	110	110	130	250	320	125	M10	20	121	150	20
IPL40/110-0.55/2	40	65	80	90	-	110	110	130	250	320	125	M10	20	121	150	21
IPL40/110-0.75/2	40	65	80	90	-	110	110	146	250	340	125	M10	20	128	150	25
IPL40/110-1.1/2	40	65	80	90	-	110	110	146	250	340	125	M10	20	128	150	26
IPL40/160-1.1/2	40	75	113	121	90	40	50	146	320	335	160	M10	20	150	150	27
IPL40/160-1.5/2	40	75	113	121	90	40	50	172	320	374	160	M10	20	150	150	30
IPL40/160-2.2/2	40	75	113	121	90	40	50	172	320	374	160	M10	20	150	150	32
IPL50/110-0.4/2	50	75	91	101	-	125	125	130	280	326	140	M10	20	121	150	23
IPL50/110-0.55/2	50	75	91	101	-	125	125	130	280	326	140	M10	20	121	150	24
IPL50/110-0.75/2	50	75	91	101	-	125	125	146	280	346	140	M10	20	128	150	28
IPL50/110-0.1.1/2	50	75	91	101	-	125	125	146	280	346	140	M10	20	128	150	29
IPL65/110-1.5/2	65	80	100	118	-	155	155	172	340	387	170	M10	20	150	150	35
IPL65/110-2.2/2	65	80	100	118	-	155	155	172	340	387	170	M10	20	150	150	37
IPL80/110-1.5/2	80	98	110	135	-	165	165	172	360	390	180	M10	20	150	150	40
IPL80/110-2.2/2	80	98	110	135	-	165	165	172	360	390	180	M10	20	150	150	42

플랜지 규격(Pumphousing Flange EN 1092-2)

DN	$\phi D$	$\phi d$	$\phi k$	$n \times d_L$
	mm			Number x mm
32	140	76	100	4 x 19
40	150	84	110	4 x 19
50	165	99	125	4 x 19
65	185	118	145	4 x 19
80	200	132	160	8 x 19



# In-Line Pumps

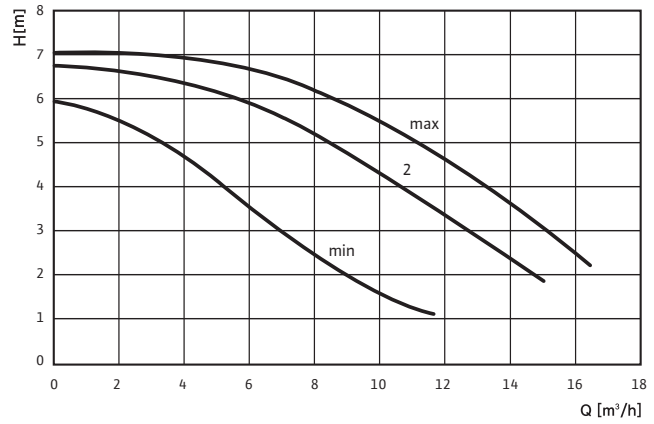
## TOP-S Series

### TOP-S Series

제품소개



### 성능곡선



### 모델명

**TOP-S40/7 EMPN6/10 60Hz**

- TOP-S: 저압 단상 인라인 펌프
- 40/: 흡/토출 구경(mm)

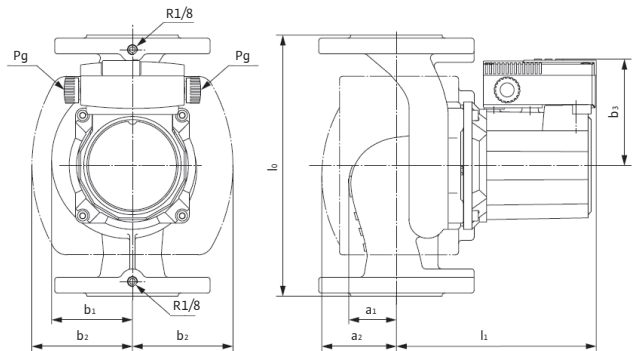
### 적용범위

- 빌딩의 냉온수 순환
- 공동주택의 온수 순환
- 급탕 순환
- 패키지 시스템
- 가압, 응축수 시스템

### 기술자료

- 사용액체  
VDI 2035에 준하는 온수, 냉수, 냉각용수, 열교환 용수, 글리콜 혼합용수 (20% 미만)
- 최대허용압력  
10bar
- 플랜지  
PN6/10 (EN1092-2), DN40
- 사용 온도  
-10°C ~ +120°C

### 외형도



### 외형치수

Model	DN	G	l <sub>0</sub>	a <sub>1</sub>	a <sub>2</sub>	l <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	Weight (kg)
			mm							
TOP-S 40/7	40	-	250	46	80	193	78	102	102	11

# In-Line Pumps

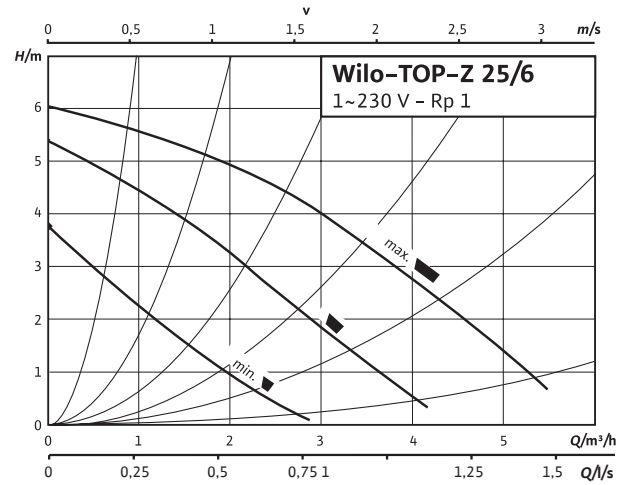
TOP-Z Series

wilo

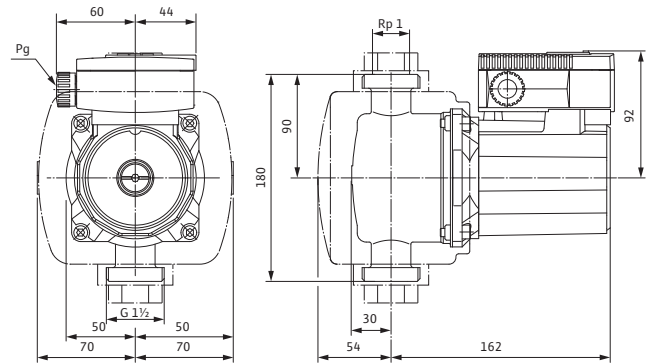
TOP-Z Series 제품소개



### 성능곡선



### 외형도



#### 모델명

**TOP-Z25/6 EMPN6/10**

- TOP-Z 저압 단상 인라인 펌프
- 25/ Screw 연결(mm)
- 6. 최대 양정(m)

#### 적용범위

- 빌딩의 냉온수 순환
- 급탕 순환
- 가압, 응축수 시스템
- 공동주택의 온수 순환
- 패키지 시스템

#### 기술자료

- 사용액체  
VDI 2035에 준하는 온수, 냉수, 냉각용수,  
열교환 용수, 글리콜 혼합용수 (20% 미만)
- 최대 허용압력  
10bar

# In-Line Pumps

IP-E/DP-E Series

IP-E/DP-E Series

제품소개



## 모델명

예) IP-E 32/160-1.1/2

- IP-E: 전자제어 인라인펌프
- DP-E: 듀얼 전자제어 인라인펌프
- 32/: 흡/토출 구경(mm)
- 160: 공칭 임펠러외경(mm)
- -1.1: 모터동력(kW)
- /2: 극수(2극 모터)

## 적용범위

냉·온수 순환, 난방순환용 등에 사용되며,  
글리콜 20%의 액체까지 사용이 가능

## 기술자료

- 허용유체  
VDI 2035에 적합한 온수  
냉수/생각수, 글리콜 혼합용수(20%)
- 성능  
무단변속  
최대허용압력: 10bar  
온도범위: -20°C~+120°C (글리콜 혼합용수의 경우 온도 ≤40°C)  
전 원: 3~380 V, 50/60Hz  
3~400 V, 50/60Hz  
3~440 V, 50/60Hz

- 배관연결  
구경: DN32~DN80(PN16/EN 1092-2)

- 주위온도  
최대: +40°C

- 재 질  
케이싱 Gray Cast Iron + Cataphoresis Coating  
랜턴 Gray Cast Iron + Cataphoresis Coating  
임펠러 Engineering Plastic  
샤프트 Stainless Steel  
미캐니컬 실 AQ1EGG

- Motor 방식  
보호계급: IP55  
절연계급: F종  
유럽 IE2 Class 모터 적용

## 구조

- 케이싱  
구형 볼류트를 가지고 있고, 흡·토출배관이 인라인에 위치  
펌프의 차압을 측정할 수 있도록 플랜지에 1/8" Tap 가공하여  
차압센서를 부착

# In-Line Pumps

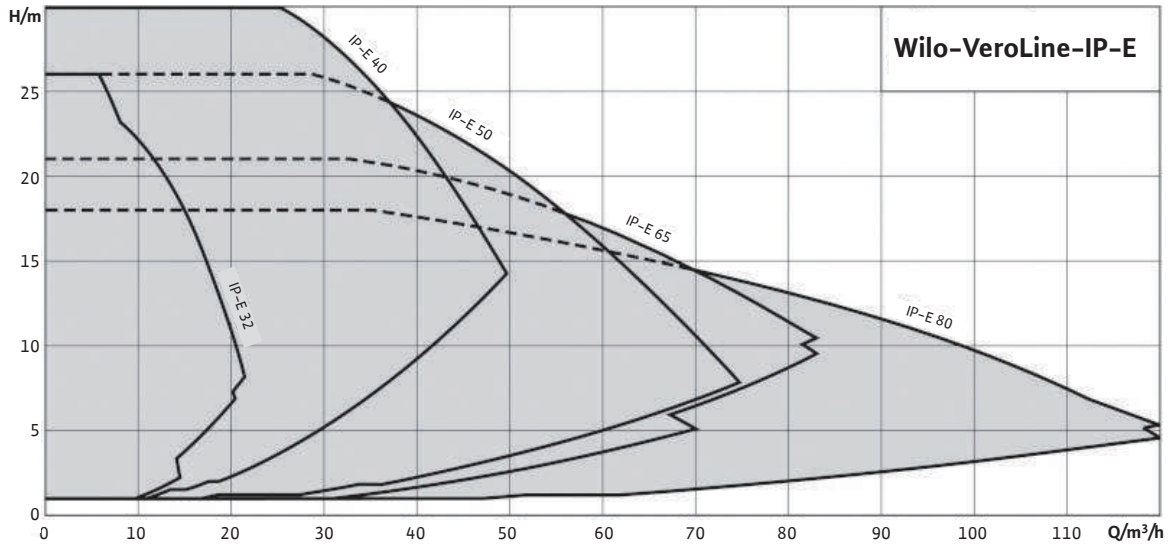
IP-E/DP-E Series

wilo

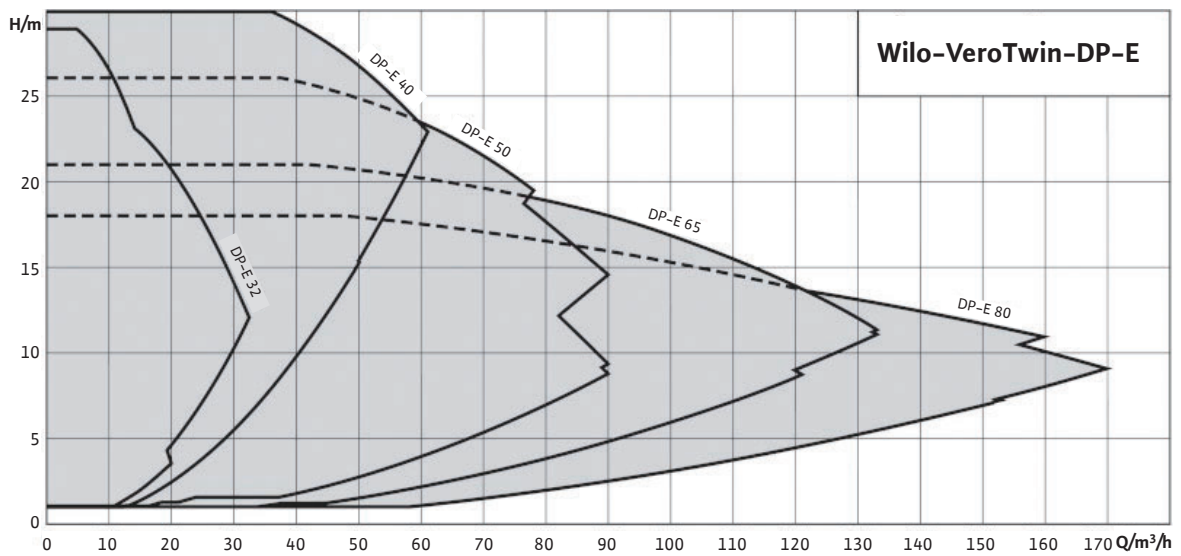
IP-E/DP-E Series

선정도

## IP-E



## DP-E



# In-Line Pumps

## PIL Series

### PIL Series

제품소개



#### 적용범위

- 빌딩의 냉, 온수 순환용
- 공동주택의 온수순환, 급탕 순환용
- 농업용의 유체 이송장치

#### 특징

- 배관과 배관사이에 간편하게 설치할 수 있으며, 배관으로부터 펌프케이스 분해 없이도 임펠러, 미캐니컬 실의 교환이 가능
- 펌프와 모터축이 일체형으로 축이음 불량으로 인한 고장을 방지
- 축봉장치는 펌프 내부의 유체로 윤활되는 미캐니컬 실이 장착
- 알루미늄 프레임 모터 채용으로 소형, 경량화를 구현 (단, 15HP 이상은 주물 프레임)

#### 선택사양

- Base Plate 부착
- 접액부재질 변경
- 미캐니컬 실재질 변경
- 상대 플랜지 부착
- 모터 형식, 구조, 동력, 주파수, 전압 변경
- 20kgf/cm<sup>2</sup> option 가능

#### 표준사양

취급액		청수 0°C~120°C(pH6~8)
운전범위	유량	3~600m <sup>3</sup> /h
	양정	5~55m
	모터동력	1~100HP
최대허용압력		16 kgf/cm <sup>2</sup>
구조	임펠러	Closed Type
	축봉장치	Mechanical Seal type
플랜지		KS 16 kgf/cm <sup>2</sup> RF
모터	상,극수	3상, 4극
	전압	7.5HP 이하: 220/380V 10HP 이상: 380V(Y-Δ)
	주파수	60Hz
	절연등급	F종
	보호방식	IP54/IP55
형식		전폐 외선형(TEFC)
설치장소		옥내형

※ 고온, 특수액을 취급할 경우에는 이송액의 특성(온도, 비중, 점도, 고형물의 유·무)과 사용조건에 따라 미캐니컬 실, 펌프 본체, Motor의 내마모성, 내식성이 현저히 변화하는 경우가 있으므로 반드시 영업 또는 공장으로 문의

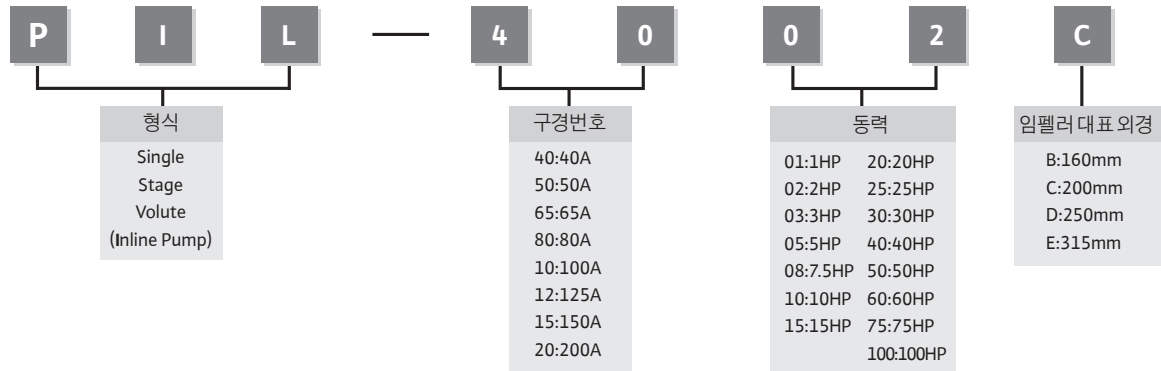
# In-Line Pumps

PIL Series

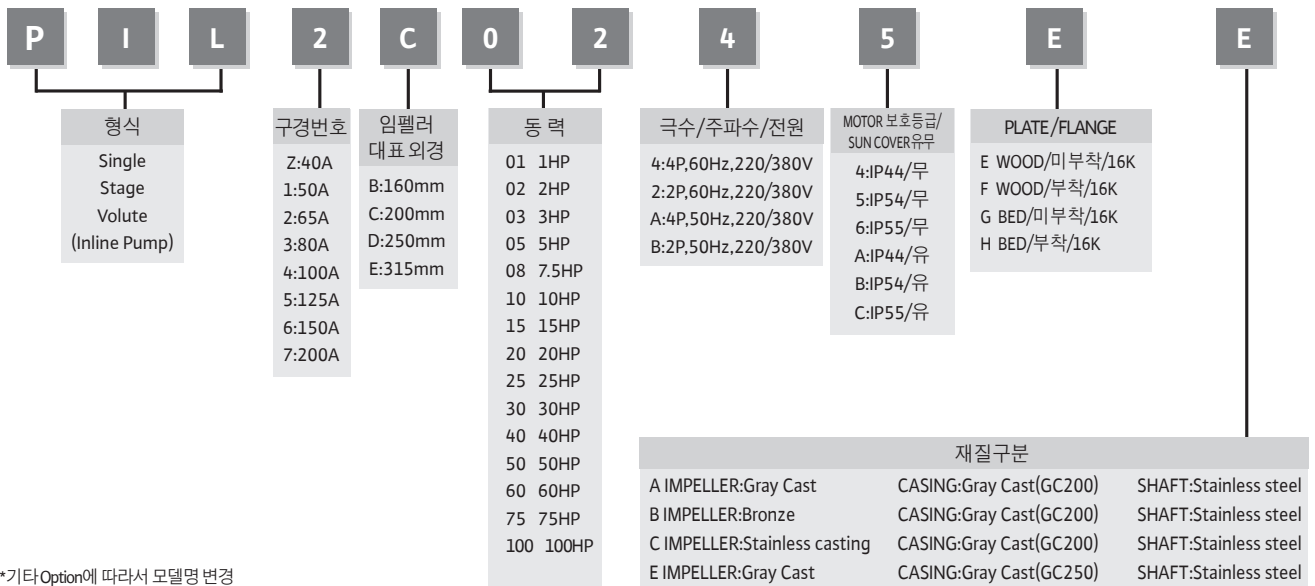


## PIL Series 모델명

대표 모델명



모델명



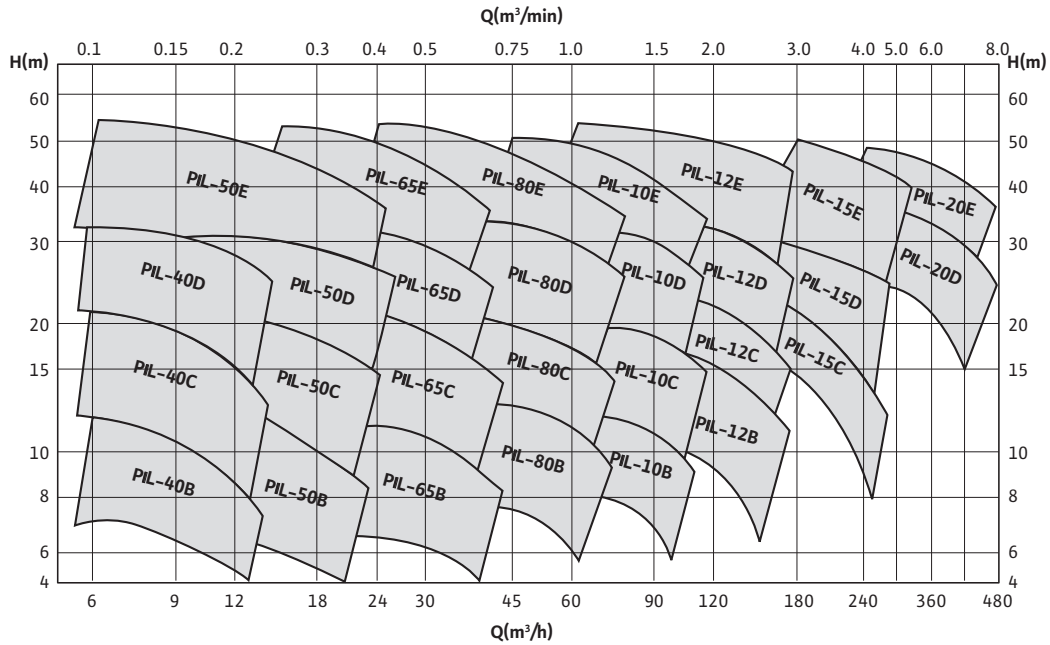
# In-Line Pumps

## PIL Series

### PIL Series

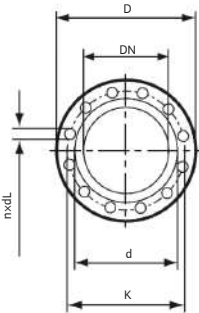
선정도 및 플랜지 규격

### 선정도



### 플랜지 규격

#### KS Flange



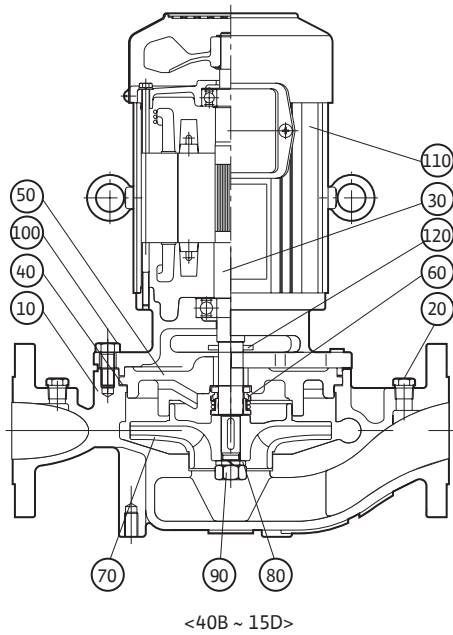
구분	DN	D	d	K	n	dL	볼트
10kgf/cm <sup>2</sup>	32	135	76	100	4	19	M16
	40	140	81	105	4	19	M16
	50	155	96	120	4	19	M16
	65	175	116	140	4	19	M16
	80	185	126	150	8	19	M16
	100	210	151	175	8	19	M16
	125	250	182	210	8	23	M20
	150	280	212	240	8	23	M20
	200	330	262	290	12	23	M20
16kgf/cm <sup>2</sup> (표준)	250	400	324	355	12	25	M22
	300	445	368	400	16	25	M22
	32	135	76	100	4	19	M16
	40	140	81	105	4	19	M16
	50	155	96	120	8	19	M16
	65	175	116	140	8	19	M16
	80	200	132	160	8	23	M20
	100	225	160	185	8	23	M20
	125	270	195	225	8	25	M22
20kgf/cm <sup>2</sup>	150	305	230	260	12	25	M22
	200	350	275	305	12	25	M22
	250	430	345	380	12	27	M24
	300	480	395	430	16	27	M24
	32	135	76	100	4	19	M16
	40	140	81	105	4	19	M16
	50	155	96	120	8	19	M16
	65	175	116	140	8	19	M16
	80	200	132	160	8	23	M20
100	225	160	185	8	23	M20	
125	270	195	225	8	25	M22	
150	305	230	260	12	25	M22	
200	350	275	305	12	25	M22	
250	430	345	380	12	27	M24	
300	480	395	430	16	27	M24	

# In-Line Pumps

PIL Series

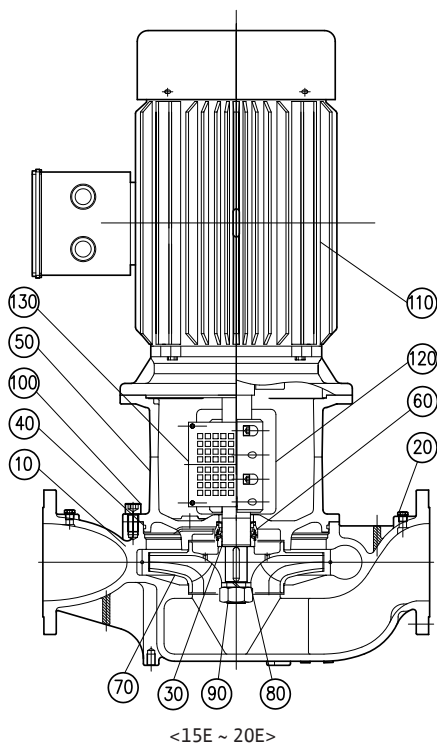
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PIL Series 단면도



단면도		
	품명	표준
10	케이싱 (Casing)	Gray Cast Iron
20	플러그 (Plug)	Steel
30	축 (Shaft)	Stainless Steel
40	케이싱 가스켓 (Casing Gasket)	Rubber
50	케이싱 커버 (Casing Cover)	Gray Cast Iron
60	미캐니컬 실 (M/Seal)	SiC/Carbon
70	임펠러 (Impeller)	Gray Cast Iron *(Bronze, Stainless Steel Casting)
80	와셔 (Washer)	STS304
90	너트 (Nut)	Steel
100	볼트 (Bolt)	Steel
110	모터 (Motor)	-
120	몰막음턱 (Deflector)	Rubber

※\*는 선택가능 재질  
※MOTOR의 Option은 영업 또는 공장에 문의



단면도		
	품명	표준
10	케이싱 (Casing)	Gray Cast Iron
20	플러그 (Plug)	Steel
30	축 (Shaft)	Stainless Steel
40	케이싱 오링 (Casing O-ring)	Rubber
50	랜턴 (Lantern)	Gray Cast Iron
60	미캐니컬 실 (M/Seal)	SiC/Carbon
70	임펠러 (Impeller)	Gray Cast Iron *(Bronze, Stainless Steel Casting)
80	임펠러 와셔 (Impeller Washer)	STS304
90	임펠러 너트 (Impeller Nut)	Steel
100	소켓볼트 (Socket Bolt)	Steel
110	모터 (Motor)	-
120	커플링 (Coupling)	Steel
130	커플링 가드 (Coupling Guard)	Steel



# In-Line Pumps

## PIL Series

### PIL Series

제품사양

#### 인라인 펌프의 장점

##### 1. 케이싱

- 흡입구에 정류판을 설치하여 흡입성능을 향상시키고, 순환수의 와류 및 케비테이션 감소
- 16kgf/cm<sup>2</sup> 또는 20kgf/cm<sup>2</sup> (option)으로 가압조건에 사용가능  
단, 수격현상(워터해머)에 대해서는 보증하지 않음
- 흡입, 토출측에 압력을 측정 할 수 있도록 Plug(3/8", 1/4")가 장착
- 지상설치가 가능하도록 Tap이 설치
- 운전 정지시 펌프 내부에 유체를 제거 하도록 드레인 Plug(3/8")가 장착

##### 2. 임펠러

- Shell Core 주조법으로 수로부가 깨끗하여 유체의 흐름 손실 감소
- CAD에 의한 3차원 Vane으로 양수성능이 우수
- STS304 재질의 임펠러 고정용 와셔는 내부식성이 우수

##### 3. 미캐니컬실

- Carbon/Silicon Carbide 재질을 기본으로 장착하고 있어, 순환수 수온 120°C, Glycol 20%, 최대 40%까지 Option으로 사용 가능
- 일시적인 역회전에서도 누수가 되지 않음
- 케이싱 커버에 형성된 자체 Flushing 구멍은 윤활, 냉각 작용을 향상
- 임펠러에 의해 고정되어 분해, 조립이 간편

##### 4. 모터

- 알루미늄 프레임(10HP 이하)을 적용하여 외관이 깨끗하고 열발산이 잘 되도록 냉각핀이 형성
- 16kgf/cm<sup>2</sup> 또는 20kgf/cm<sup>2</sup>의 운전에도 견딜 수 있는 option모델 공급 가능하며, 밀폐형 볼 베어링을 장착
- Shaft의 재질을 STS410으로 채용하여 내식성을 향상

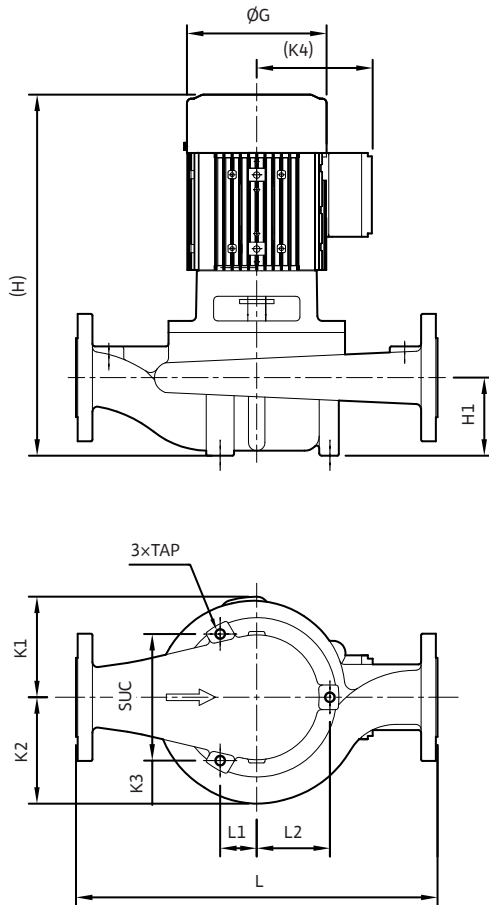
Model	구경 (흡입X토출)	동력	
		(HP)	(kW)
PIL-4001B	40X40	1	0.75
PIL-4002B	40X40	2	1.5
PIL-5001B	50X50	1	0.75
PIL-5002B	50X50	2	1.5
PIL-6502B	65X65	2	1.5
PIL-6503B	65X65	3	2.2
PIL-8003B	80X80	3	2.2
PIL-8005B	80X80	5	3.7
PIL-1005B	100X100	5	3.7
PIL-1008B	100X100	7.5	5.5
PIL-1208B	125X125	7.5	5.5
PIL-1210B	125X125	10	7.5
PIL-4002C	40X40	2	1.5
PIL-5003C	50X50	3	2.2
PIL-6503C	65X65	3	2.2
PIL-6505C	65X65	5	3.7
PIL-8005C	80X80	5	3.7
PIL-8008C	80X80	7.5	5.5
PIL-8010C	80X80	10	7.5
PIL-1008C	100X100	7.5	5.5
PIL-1010C	100X100	10	7.5
PIL-1210C	125X125	10	7.5
PIL-1215C	125X125	15	11
PIL-1515C	150X150	15	11
PIL-1520C	150X150	20	15
PIL-1525C	150X150	25	18.5
PIL-4003D	40X40	3	2.2
PIL-4005D	40X40	5	3.7
PIL-5005D	50X50	5	3.7
PIL-5008D	50X50	7.5	5.5
PIL-6505D	65X65	5	3.7
PIL-6508D	65X65	7.5	5.5
PIL-8008D	80X80	7.5	5.5
PIL-8010D	80X80	10	7.5
PIL-8015D	80X80	15	11
PIL-1010D	100X100	10	7.5
PIL-1015D	100X100	15	11
PIL-1020D	100X100	20	15
PIL-1215D	125X125	15	11
PIL-1220D	125X125	20	15
PIL-1225D	125X125	25	18.5
PIL-1230D	125X125	30	22
PIL-1525D	150X150	25	18.5
PIL-1530D	150X150	30	22
PIL-1540D	150X150	40	30
PIL-2040D	200X200	40	30
PIL-2050D	200X200	50	37
PIL-2060D	200X200	60	45
PIL-5008E	50X50	7.5	5.5
PIL-5010E	50X50	10	7.5
PIL-5015E	50X50	15	11
PIL-6510E	65X65	10	7.5
PIL-6515E	65X65	15	11
PIL-8015E	80X80	15	11
PIL-8020E	80X80	20	15
PIL-8025E	80X80	25	18.5
PIL-1020E	100X100	20	15
PIL-1025E	100X100	25	18.5
PIL-1030E	100X100	30	22
PIL-1230E	125X125	30	22
PIL-1240E	125X125	40	30
PIL-1540E	150X150	40	30
PIL-1550E	150X150	50	37
PIL-1560E	150X150	60	45
PIL-1575E	150X150	75	55
PIL-2060E	200X200	60	45
PIL-2075E	200X200	75	55
PIL-20100E	200X200	100	75

# In-Line Pumps

PIL Series



## PIL Series 외형도 및 치수



외형치수도												
Model	H	H1	K1	K2	K3	K4	L	L1	L2	ØG	TAP	Wt. (kg)
PIL-4001B	435	90	123	123	139	142	390	40	80	170	M12	49
PIL-4002B	481	90	123	123	139	154	390	40	80	196	M12	58
PIL-5001B	440	95	123	130	154	142	440	45	89	170	M12	50
PIL-5002B	486	95	123	130	154	154	440	45	89	196	M12	59
PIL-6502B	503	110	123	138	154	154	474	45	89	196	M12	65
PIL-6503B	553	110	123	138	154	151	474	45	89	196	M12	72
PIL-8003B	582	130	131	155	170	151	524	49	95	196	M12	74
PIL-8005B	634	130	131	155	170	192	524	49	95	255	M12	75
PIL-1005B	659	150	138	171	195	192	574	55	110	255	M12	103
PIL-1008B	719	150	138	171	195	227	574	55	110	282	M12	120
PIL-1208B	760	185	167	211	250	227	652	72	144	282	M16	135
PIL-1210B	760	185	167	211	250	227	652	72	144	282	M16	140
PIL-4002C	478	90	145	145	130	154	390	30	0	196	M12	58
PIL-5003C	533	100	145	149	154	151	440	60	85	196	M12	73
PIL-6503C	550	110	149	167	154	151	475	60	85	196	M12	79
PIL-6505C	596	110	149	167	154	192	475	60	85	255	M12	81
PIL-8005C	629	130	157	180	170	192	500	65	95	255	M12	90
PIL-8008C	689	130	157	180	170	227	500	65	95	282	M12	103
PIL-1008C	721	150	155	184	195	227	550	55	110	282	M12	109
PIL-1010C	721	150	155	184	195	227	550	55	110	282	M12	117
PIL-1210C	732	165	168	207	250	227	652	72	144	282	M16	140
PIL-1215C	767	165	168	207	250	289	652	72	144	319	M16	183
PIL-1515C	794	185	184	234	286	289	750	83	165	319	M16	203
PIL-1520C	794	185	184	234	286	289	750	83	165	319	M16	235
PIL-1525C	818	185	184	234	286	309	750	83	165	359	M16	275
PIL-4003D	524	90	176	176	154	151	474	45	89	196	M12	80
PIL-4005D	580	90	176	176	154	192	474	45	89	255	M12	82
PIL-5005D	591	100	176	176	154	192	474	45	89	255	M12	77
PIL-5008D	652	100	176	176	154	227	474	45	89	282	M12	90
PIL-6505D	607	115	176	176	195	192	524	55	110	255	M12	89
PIL-6508D	668	115	176	176	195	227	524	55	110	282	M12	102
PIL-8008D	702	130	176	194	195	227	550	55	110	282	M12	115
PIL-8010D	702	130	176	194	195	227	550	55	110	282	M12	120
PIL-8015D	736	130	176	194	195	289	550	55	110	319	M12	173
PIL-1010D	726	140	186	212	225	227	620	65	130	282	M12	130
PIL-1015D	760	140	186	212	225	289	620	65	130	319	M12	173
PIL-1020D	760	140	186	212	225	289	620	65	130	319	M12	178
PIL-1215D	776	165	182	213	250	289	700	72	144	319	M16	180
PIL-1220D	776	165	182	213	250	289	700	72	144	319	M16	215
PIL-1225D	801	165	182	213	250	309	700	72	144	359	M16	263
PIL-1230D	801	165	182	213	250	309	700	72	144	359	M16	281
PIL-1525D	841	200	198	241	286	309	750	83	165	359	M16	277
PIL-1530D	841	200	198	241	286	309	750	83	165	359	M16	294
PIL-1540D	908	200	198	241	286	317	750	83	165	358	M16	400
PIL-5008E	665	110	203	203	195	227	524	55	110	282	M12	108
PIL-5010E	665	110	203	203	195	227	524	55	110	282	M12	110
PIL-5015E	690	110	203	203	195	289	524	55	110	319	M12	163
PIL-6510E	686	130	203	212	195	289	600	55	110	282	M12	112
PIL-6515E	720	130	203	212	195	289	600	55	110	319	M12	172
PIL-8015E	750	150	203	218	195	289	650	55	110	319	M12	193
PIL-8020E	750	150	203	218	195	289	650	55	110	319	M12	215
PIL-8025E	774	150	203	218	195	309	650	55	110	359	M12	257
PIL-1020E	755	165	205	223	225	289	700	65	130	319	M12	215
PIL-1025E	779	165	205	223	225	309	700	65	130	359	M12	265
PIL-1030E	779	165	205	223	225	309	700	65	130	359	M12	278
PIL-1230E	804	185	220	246	250	309	700	72	144	359	M16	294
PIL-1240E	860	185	220	246	250	317	700	72	144	358	M16	492

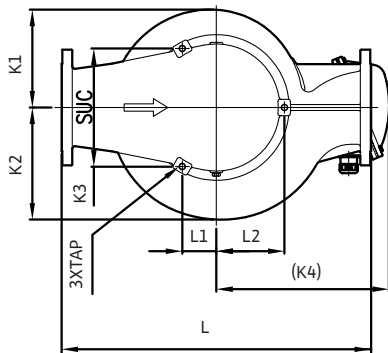
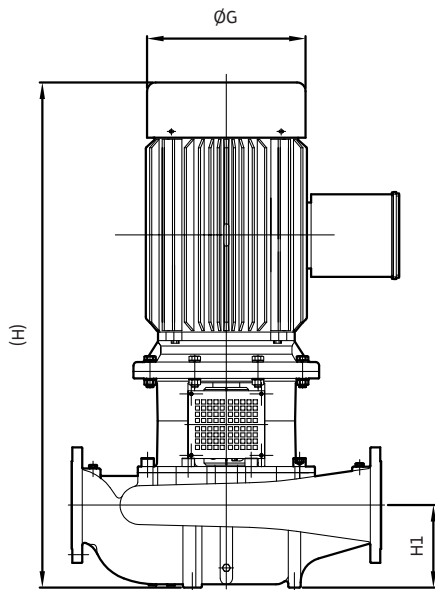
※상기치수는 성능 향상 및 공급처에 따라 변경 가능  
 ※( )는 부착 모터에 따라 차이가 있으며,참고 치수

# In-Line Pumps

## PIL Series

### PIL Series

### 외형도 및 치수



외형치수도

Model	H	H1	K1	K2	K3	K4	L	L1	L2	ØG	TAP	Wt. (kg)
PIL-1540E	1112	200	238	272	286	317	750	83	165	358	M16	495
PIL-1550E	1314	200	238	272	286	405	750	83	165	406	M16	530
PIL-1560E	1314	200	238	272	286	405	750	83	165	406	M16	550
PIL-1575E	1374	200	238	272	286	434	750	83	165	454	M16	610
PIL-2040D	1176	240	251	309	395	317	905	114	228	358	M16	540
PIL-2050D	1367	240	251	309	395	405	905	114	228	406	M16	570
PIL-2060D	1367	240	251	309	395	405	905	114	228	406	M16	590
PIL-2060E	1363	240	271	332	395	405	905	114	228	406	M16	620
PIL-2075E	1423	240	271	332	395	434	905	114	228	454	M16	680
PIL-20100E	1473	240	271	332	395	465	905	114	228	510	M16	830

※상기치수는 성능 향상 및 공급처에 따라 변경 가능  
 ※( )는 부착 모터에 따라 차이가 있으며, 참고치수

# In-Line Pumps

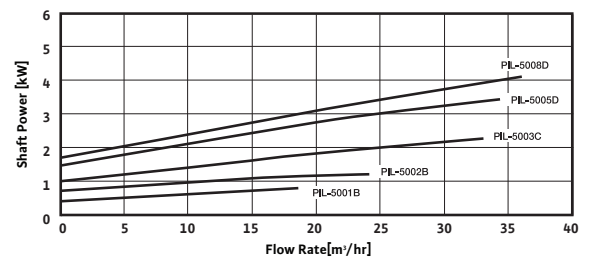
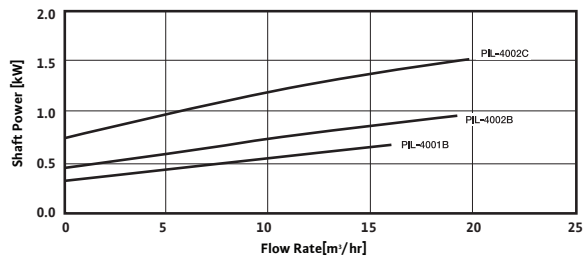
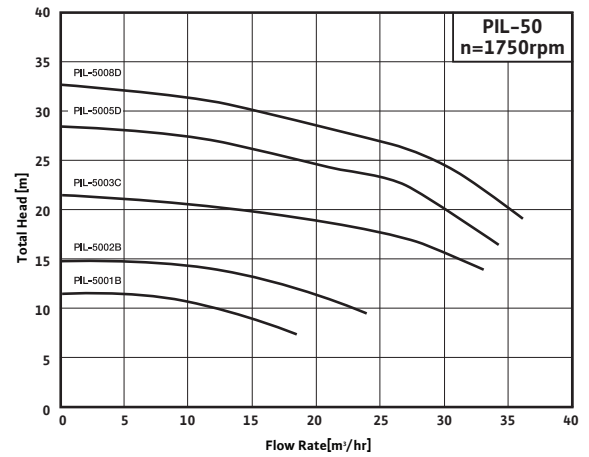
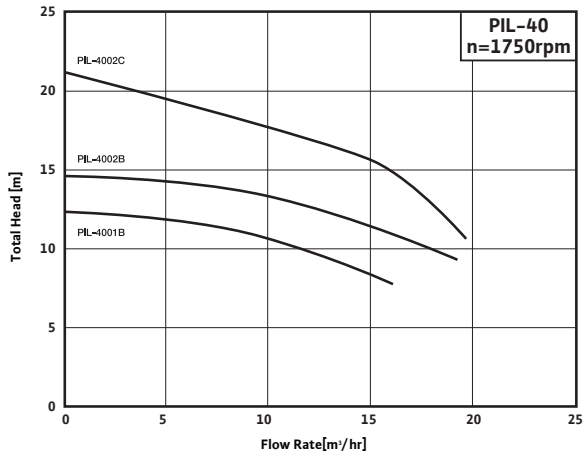
PIL Series



## PIL Series 성능곡선

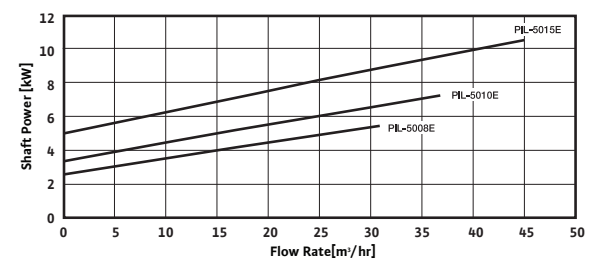
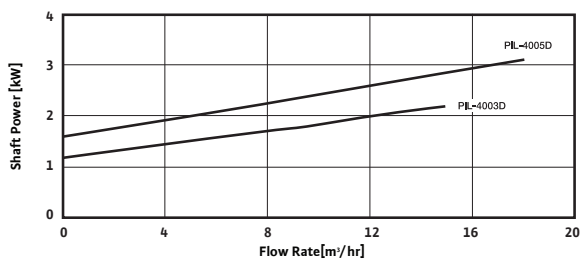
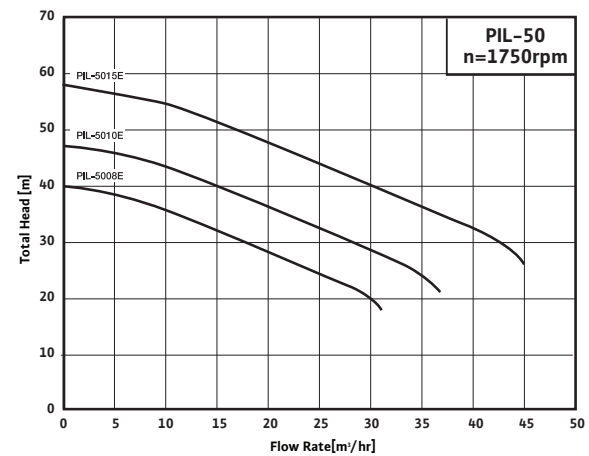
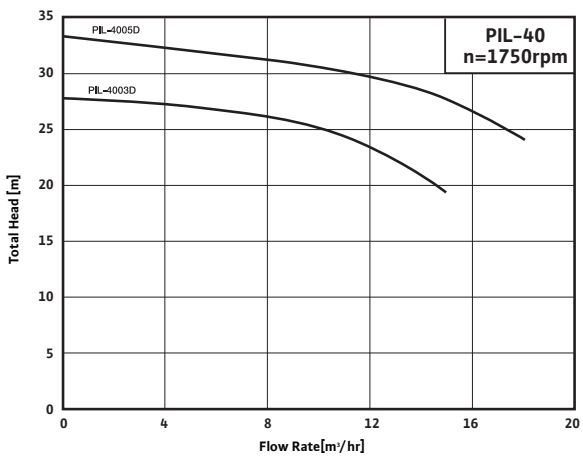
### PIL- 4001B~PIL- 4002C

### PIL- 5001B~PIL- 5008D



### PIL- 4003D~PIL- 4005D

### PIL- 5008E~PIL- 5015E



# In-Line Pumps

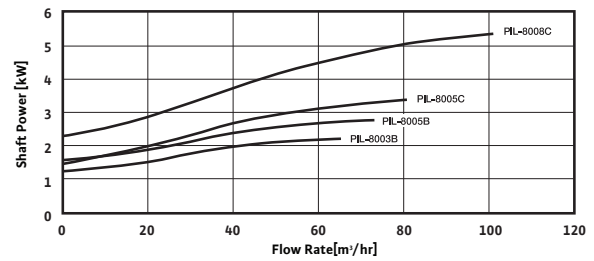
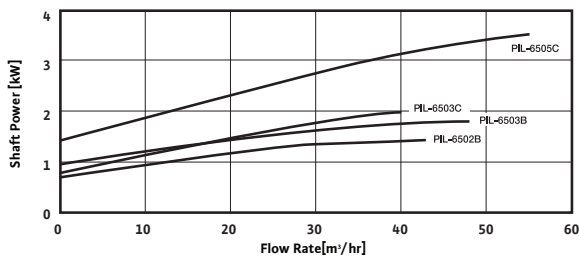
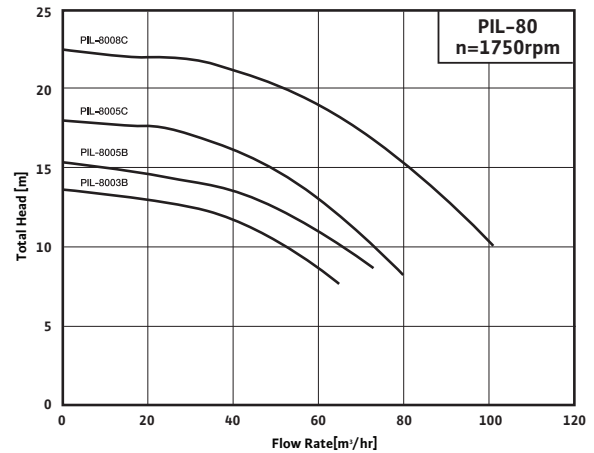
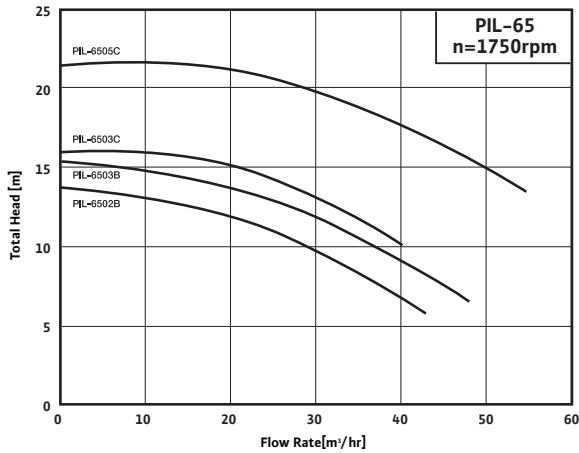
## PIL Series

### PIL Series

성능곡선

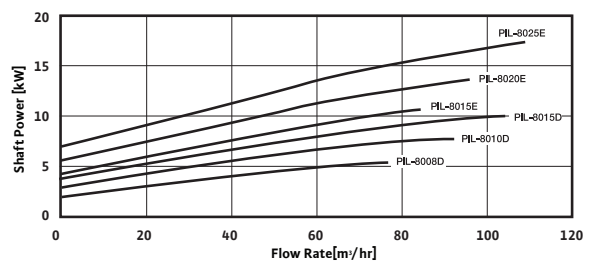
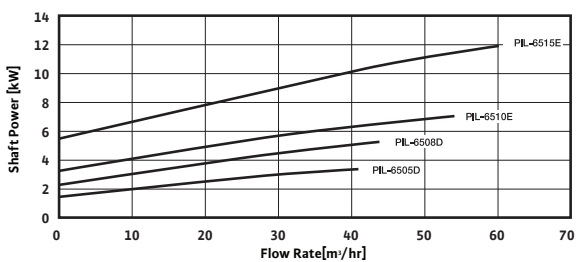
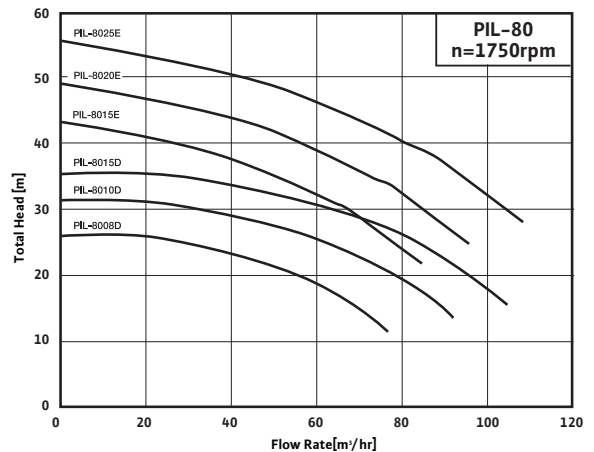
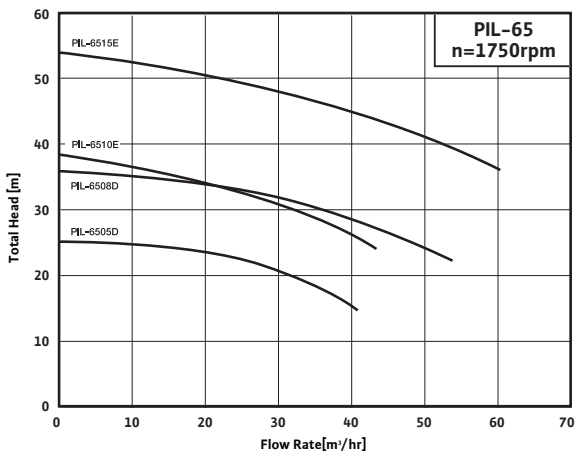
#### PIL- 6502B~PIL- 6505C

#### PIL- 8003B~PIL- 8008C



#### PIL- 6505D~PIL- 6515E

#### PIL- 8008D~PIL- 8025E



# In-Line Pumps

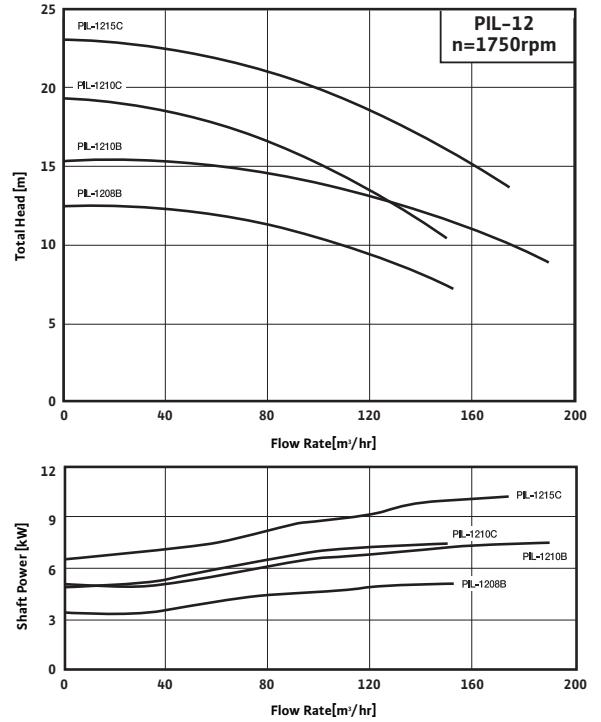
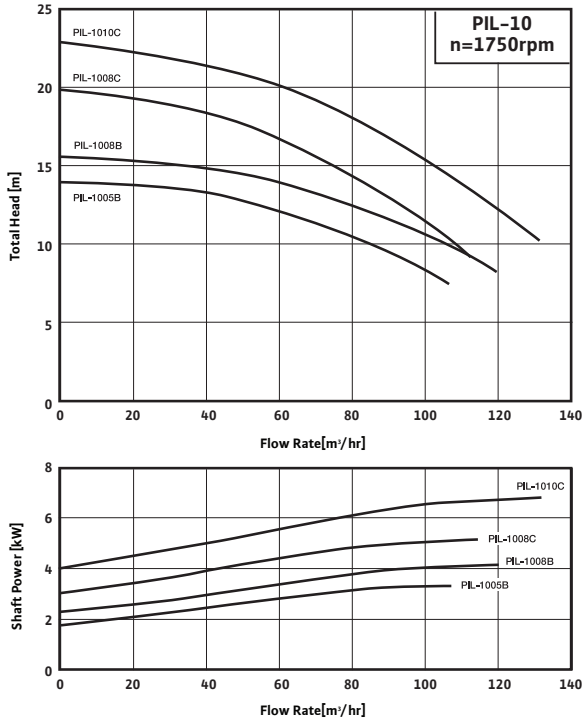
PIL Series



PIL Series 성능곡선

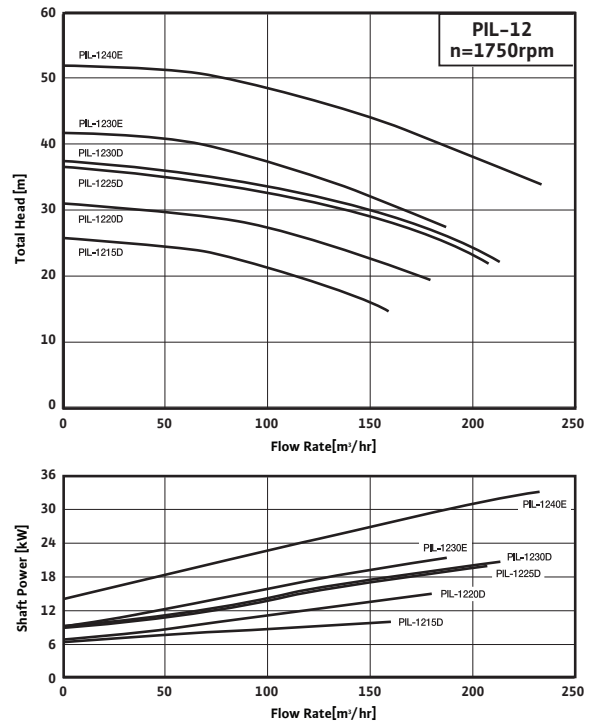
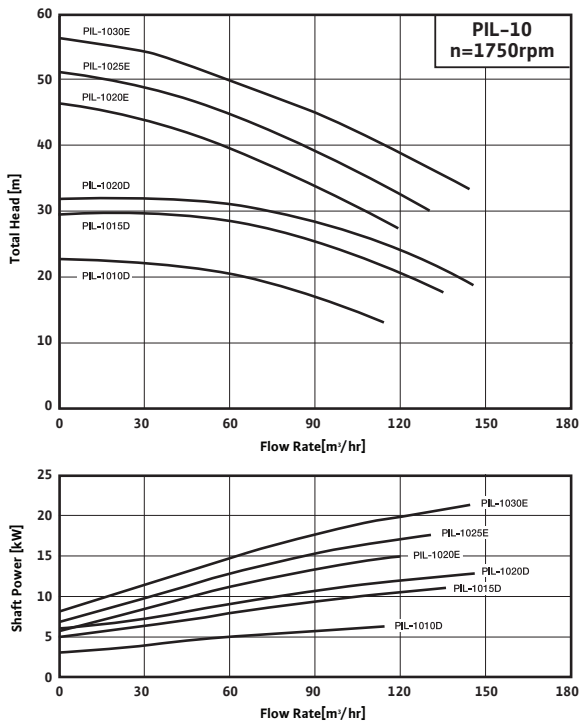
## PIL- 1005B~PIL- 1010C

## PIL- 1208B~PIL- 1215C



## PIL- 1010D~PIL- 1030E

## PIL- 1215D~PIL- 1240E



# In-Line Pumps

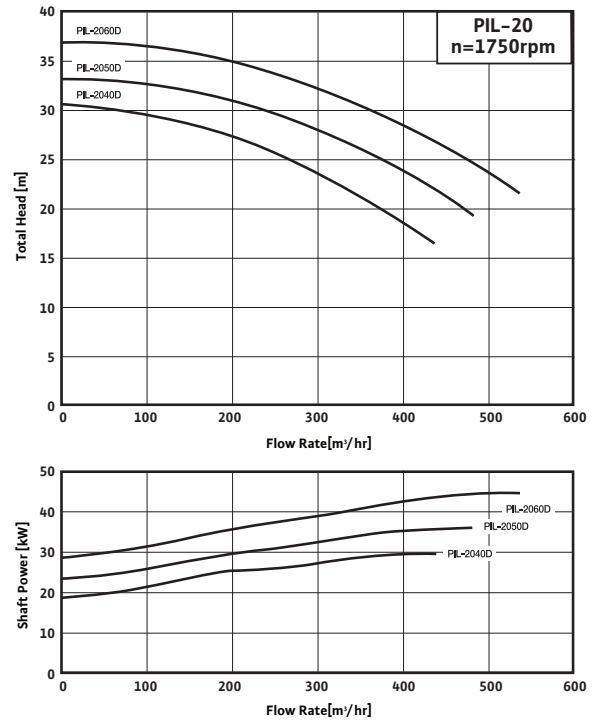
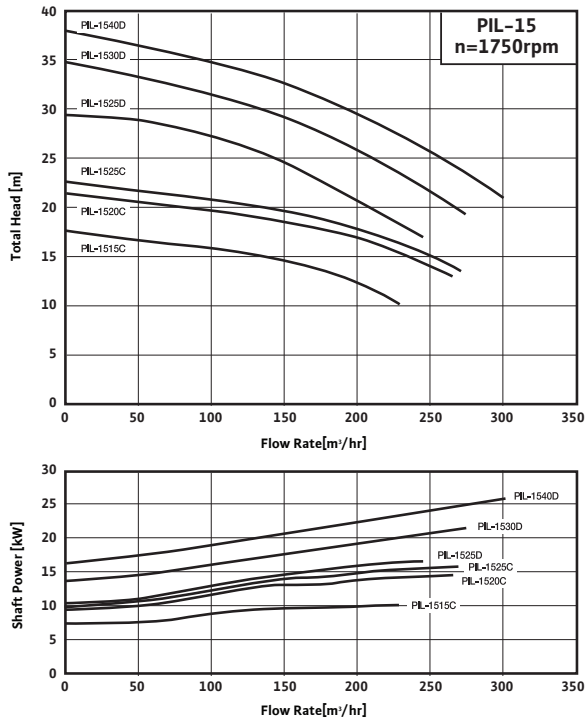
## PIL Series

### PIL Series

성능곡선

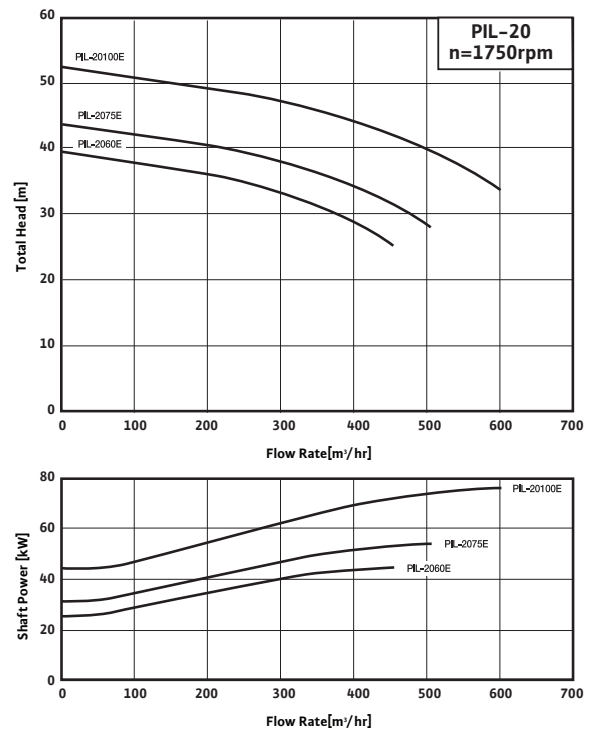
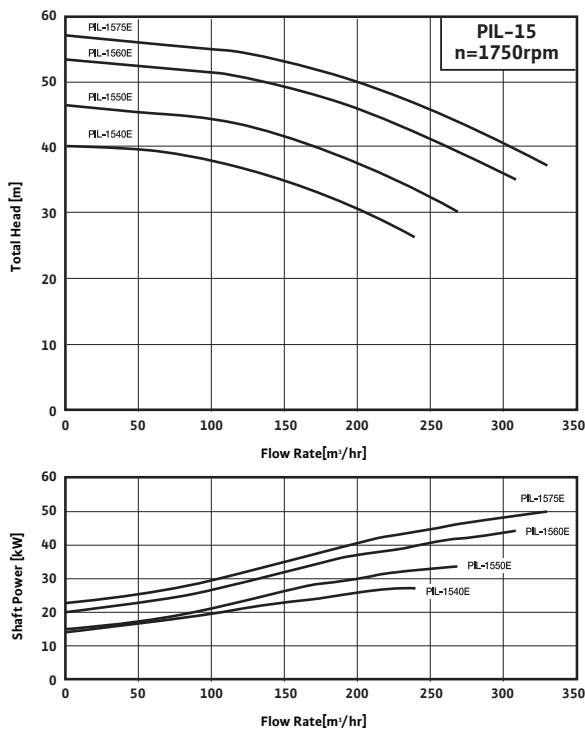
#### PIL- 1515C~PIL- 1540D

#### PIL- 2040D~PIL- 2060D



#### PIL- 1540E~PIL- 1575E

#### PIL- 2060E~PIL- 20100E

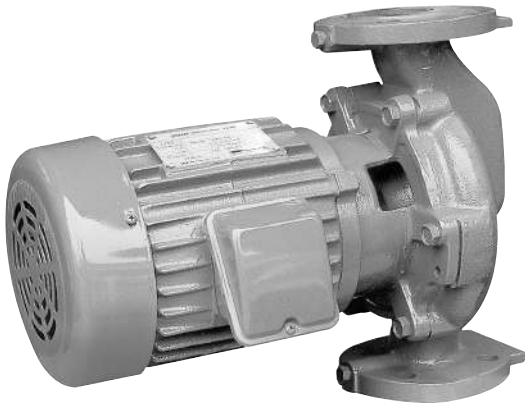


# In-Line Pumps

PIN Series

wilo

PIN Series 제품소개



MODEL	구경(mm)		동력 (HP)	유량 (m³/h)	양정 (m)	총중량 (kg)
	흡입	토출				
PIN - 4001	40	40	1	7.2	10	33
PIN - 5001	50	50	1	7.2	10	33
PIN - 5002	50	50	2	14.4	10	48
PIN - 6502	65	65	2	14.4	10	48
PIN - 6503	65	65	3	30	10	78
PIN - 8003	80	80	3	30	10	78

cf. PIN-5001, 6502, 8003은 상대 플랜지의 구경만 변경하여 적용하는 MODEL

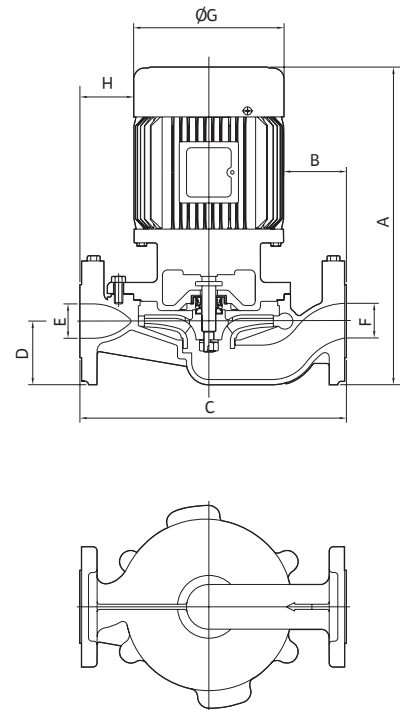
### 적용범위

- 빌딩, 온수 순환용
- 공동주택의 온수순환, 급탕순환용
- 농업용의 유체 이송장치
- 최대허용압력: 3kgf/cm²
- 최대허용 사용온도: 0~80°C

### 특징

- 배관사이에 간편하게 설치되므로 플렉시블 방진기대의 설치가 불필요
- 설치공간이 작고 가벼우며, 분해 및 조립이 간편
- 펌프와 모터축이 일체형 구조로 진동, 소음 감소

### 외형도



In-Line Pumps

MODEL	PHASE	OUTPUT	A	B	C	D	E	F	ØG	H	Fr. No
PIN-4001/5001	3상	0.75kW	377	70.5	310	76	Ø40	Ø40	175	60.5	80
PIN-5002/6502		1.5kW	437	71.5	330	77.5	Ø50	Ø50	192	61.5	90
PIN-6503/8003		2.2kW	506	70	380	87.5	Ø60	Ø60	235	70	100



# In-Line Pumps

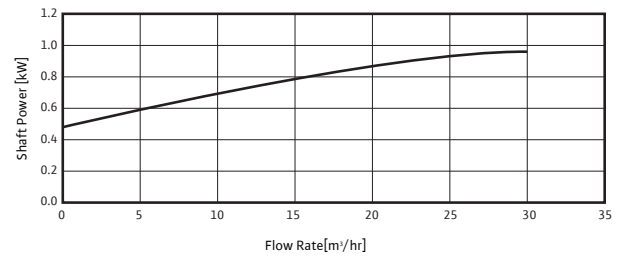
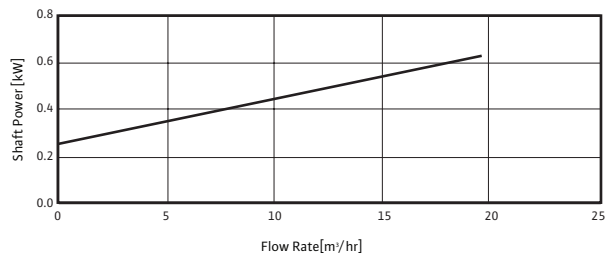
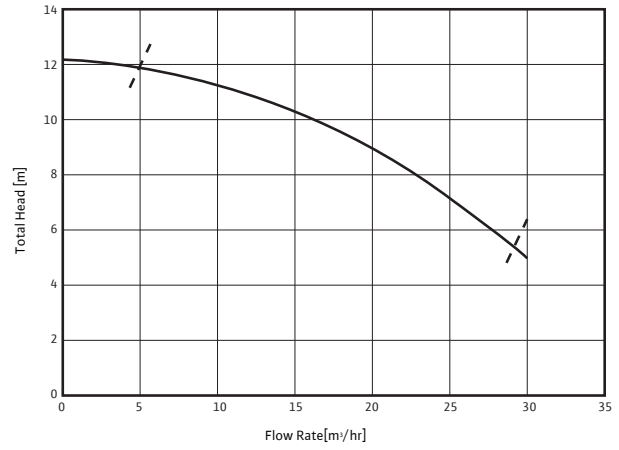
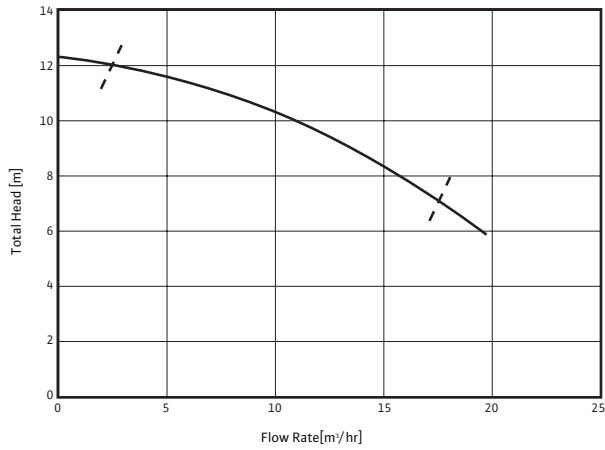
## PIN Series

### PIN Series

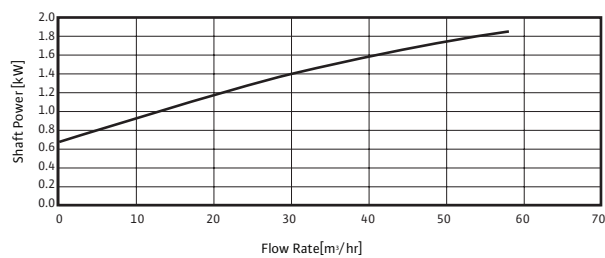
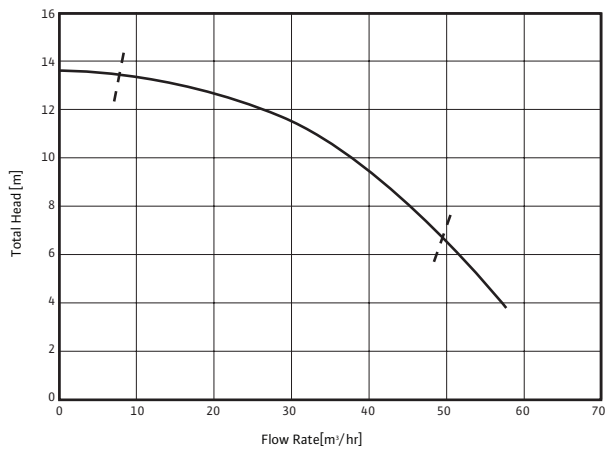
성능곡선

#### PIN- 4001/5001

#### PIN- 5002/6502



#### PIN- 6503/8003



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