

Pioneering for You

wilo

산업용 제품 카탈로그

In-Line Pumps

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



윌로펌프(주)

2025 국가품질상
품질경쟁력우수기업





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윌로펌프는 독일에 본사를 둔 세계적인 다국적 기업으로, 엔지니어링 우수성의 오랜 전통을 바탕으로 빌딩 서비스와 수처리, 반도체, 데이터센터, 에너지 산업 등 다양한 분야에서 수자원 공급, 폐수 처리, 난방 및 냉각 시스템 등 다양한 목적에 적합한 고성능 펌프를 제공하고 있습니다.

200여 개의 공식 대리점 및 서비스 네트워크를 통해 고객의 변화하는 요구에 맞춘 맞춤형 솔루션과 뛰어난 서비스를 제공하고 있으며, 친환경 기술 발전에 전념하며 환경 영향을 최소화하고 운영 효율성을 극대화하는 첨단 제품을 지속적으로 개발하고 있습니다.

Pioneering for You

In-Line Pumps

04 — Stratos GIGA2.0-I

05 — Stratos PICO

07 — Atmos GIGA-I

29 — IL

53 — IL-I

59 — IPL/TOP-S/TOP-Z

65 — PIL

76 — PIN

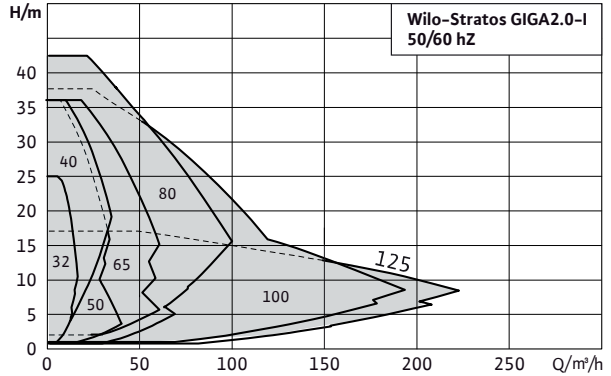


In-Line Pumps

Stratos GIGA2.0-I Series

Stratos GIGA2.0-I Series

제품 소개



모델명

예) Stratos GIGA2.0-I 65/1-37/4.0

- Stratos : 패밀리(Family)
- GIGA : 시리즈(Series)
- 2.0 : 2세대(Second Generation)
- I : 펌프형식(Single Stage Inline Pump)
- 65 : 흡/토출 구경(mm)
- 1-37 : 양정 범위(m)
- 4.0 : 적용 전동기 동력(kW)

적용범위

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

기술자료

- 최대 허용 압력
13bar에서 +140°C
16bar에서 +120°C
- 사용 온도 : -20°C ~ +140°C
- 주위 온도 : 최대 +40°C
- 허용 유체 : 냉수/냉각수, 열교환 용수
글리콜 혼합 용수(40% 미만)
- 플랜지
PN16 (EN1092-2)

• 전동기

IE5 Efficiency Motor
3상, IP55, F종

- 전원사양 : 3~380V & 3~440V, 50/60Hz
0.55~7.5kW

• 재질(표준)

펌프하우징 : 회주철 + 전착 코팅
임펠러 : 엔지니어링 플라스틱 / 회주철 + 전착 코팅
(모델에 따라 상이함)
펌프축 : 스테인리스 스틸
랜턴 : 회주철 + 전착 코팅
미캐니컬 실 : SiC/Carbon/EPDM

특장점

- IE5 EC 모터 적용
- Smart connect 기능(Smart Gateway, Building Automation)
- 다양하고 최적효율을 위한 운전 모드
- 실시간 데이터 확인 가능
- Setting Assistance 기능 지원
- 쉬운 조작(4.3" LED Display & Wilo Green 버튼 적용)
- 보호장치(PTC 내장)

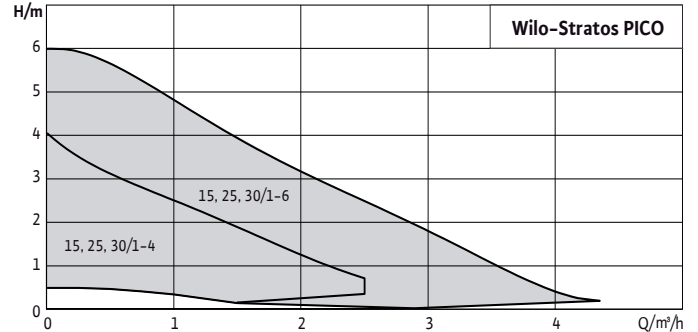
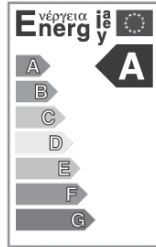
In-Line Pumps

Stratos PICO Series



Stratos PICO Series

제품 소개



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
- 주위온도 : 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 + Cataphoresis 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

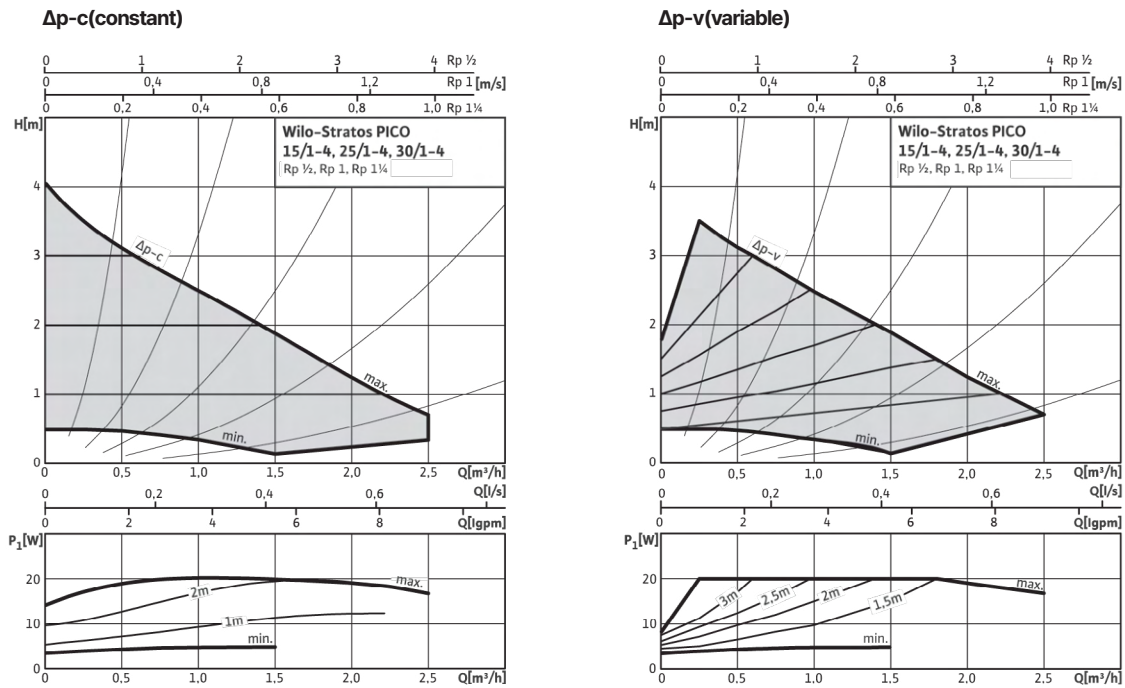
In-Line Pumps

Stratos PICO Series

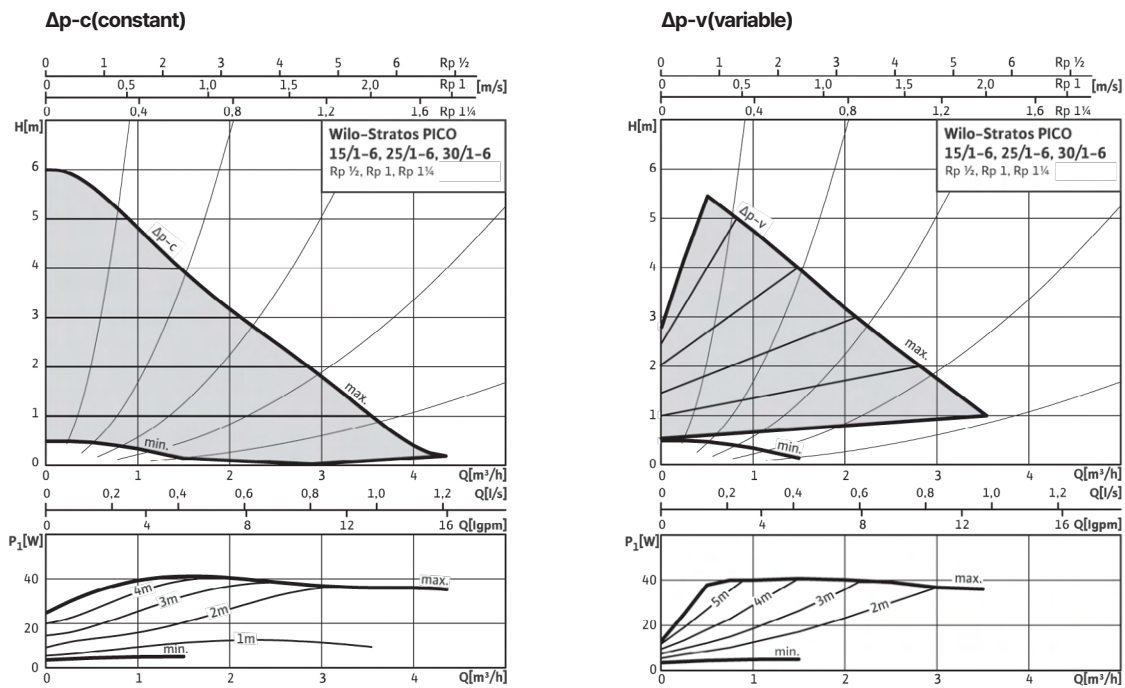
Stratos PICO Series

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

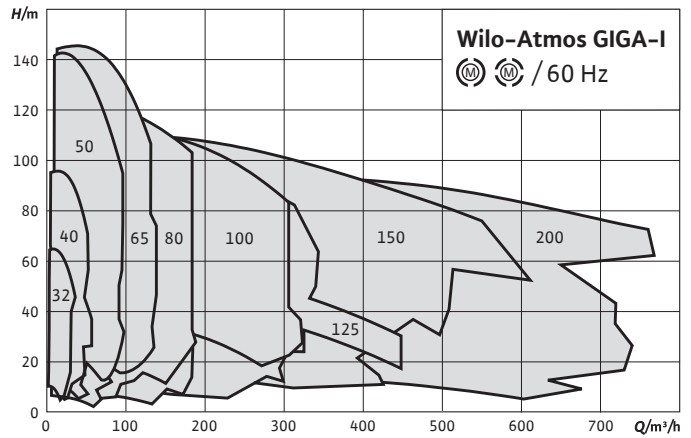


In-Line Pumps

Atmos GIGA-I Series



Atmos GIGA-I Series 제품 소개



모델명

- 예) Atmos GIGA-I200/400-160/4
- Atmos : 패밀리(Family)
- GIGA- : 시리즈(Series)
- I : 펌프형식(Single Stage Inline Pump)
- 200 : 흡토출 구경(mm)
예) 흡입 200mm, 토출 200mm
- /400 : 임펠러 공칭 외경(mm)-125,160,200,250,315,400
예) 임펠러 공칭 외경 400mm
- -160 : 적용 전동기 동력(kW)
예) 적용 전동기 160kW
- /4 : 적용 전동기 극수(Pole)-2극,4극,6극
예) 적용 전동기 극수 4극

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.
- 최대 허용 압력
13bar에서 +140°C
16bar에서 +120°C
- 사용 온도 : -20°C~+140°C
- 주위 온도 : 최대 +40°C

- 축봉 장치 : 기계컬 실
- 플랜지
PN16(EN1092-2)
1/8" 게이지 태핑
- 전동기
IEC 표준 모터(효율 관리 기자재 운영 규정 만족)
3상, IP55, F종
- 전원사양 : 0.4kW~5.5kW, 220/380V, 60Hz
7.5kW~200kW, 380V(Y-Δ), 60Hz
(전압 및 주파수 변경은 옵션)
- 재질(표준)
펌프하우징 : 회주철 + 전착 코팅
임펠러 : 회주철 + 전착 코팅
펌프축 : 스테인리스 스틸
랜턴 : 회주철 + 전착 코팅
기계컬 실 : SiC/Carbon/EPDM
*25bar 옵션 가능 : SC450 펌프하우징
*청동 임펠러 옵션 가능
*스테인리스 스틸 임펠러 옵션 가능

특장점

- 커플링
강체 분할 커플링 연결 구조
- 케이싱
흡토출구의 크기가 같은 인라인 펌프하우징
외부 Rib 보강구조로 고압에서도 높은 안전성
- 임펠러
3차원 유동해석을 통한 최적설계
유체의 저항을 최소화 하여 고효율 실현
- 전동기: IEC 표준 모터 적용으로 높은 호환성
- 기계컬 실
기계컬 실 표준 장착
(옵션) 4극 37kW이상 카트리지 기계컬 실 가능

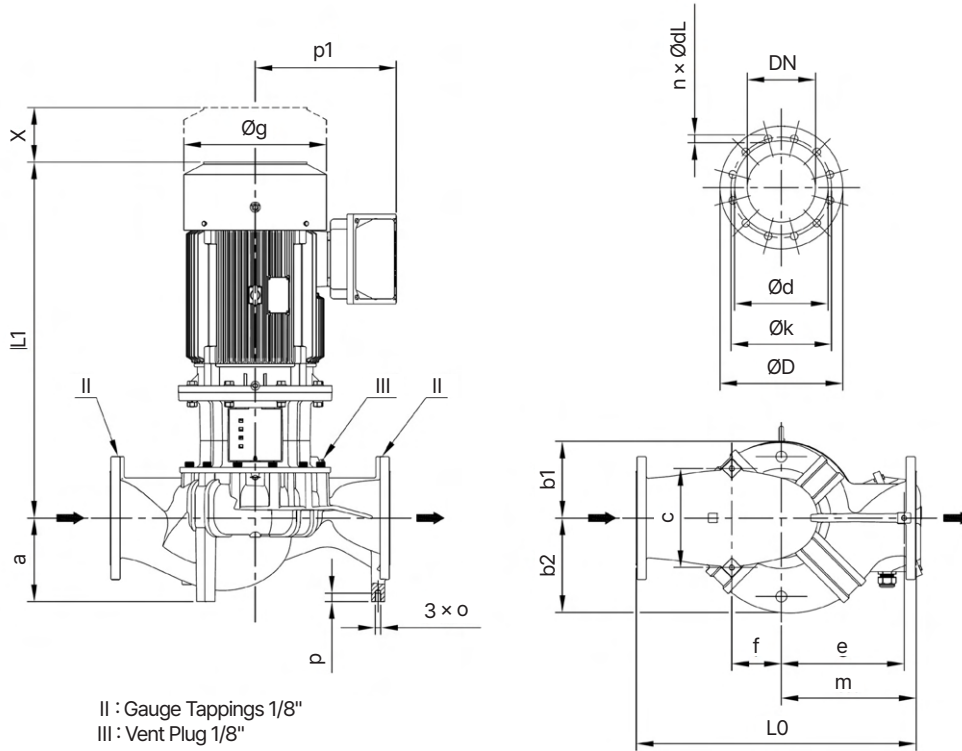
In-Line Pumps

Atmos GIGA-I Series

Atmos GIGA-I Series

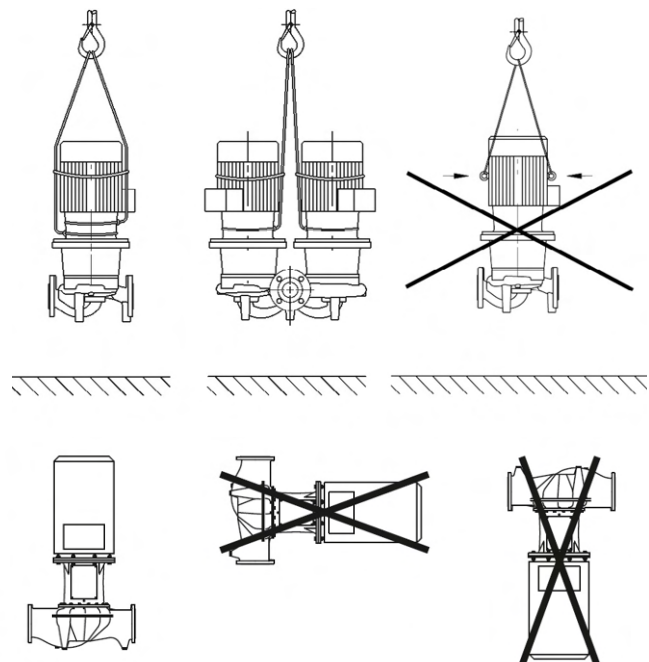
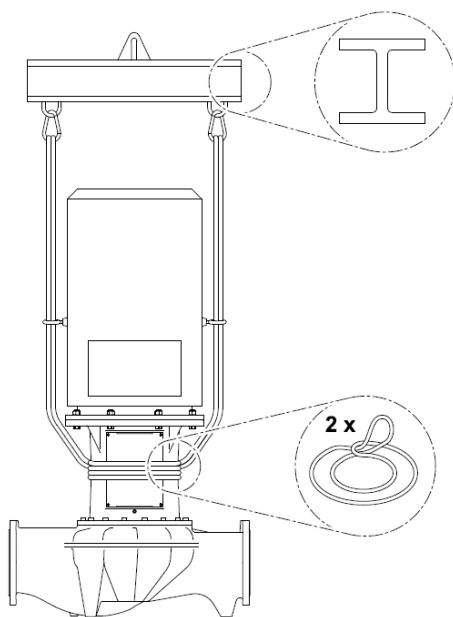
외형도

외형도



*대표 외형도로 모델에 따라 형상이 상이할 수 있으며, 전동기 관련 형상 및 Terminal Box의 형상은 전동기 제조 업체에 따라 달라질 수 있습니다.

이동과 설치



In-Line Pumps

Atmos GIGA-I Series



Atmos GIGA-I Series 외형치수

치수 - Flange (EN 1092-2 PN16)						
Model (Atmos GIGA-)	Flange Dimensions(mm)					적용 Bolt
	구경 DN	ØD	Ød	Øk	n×ØdL	
I32/160	32	140	76	100	4×19	M16
I40/160	40	150	84	110	4×19	M16
I40/200	40	150	84	110	4×19	M16
I50/125	50	165	99	125	4×19	M16
I50/160	50	165	99	125	4×19	M16
I50/200	50	165	99	125	4×19	M16
I50/250	50	165	99	125	4×19	M16
I65/125	65	185	118	145	4×19	M16
I65/160	65	185	118	145	4×19	M16
I65/200	65	185	118	145	4×19	M16
I65/250	65	185	118	145	4×19	M16
I80/125	80	200	132	160	8×19	M16
I80/160	80	200	132	160	8×19	M16
I80/200	80	200	132	160	8×19	M16
I80/250	80	200	132	160	8×19	M16
I80/315	80	200	132	160	8×19	M16
I100/160	100	220	156	180	8×19	M16
I100/200	100	235	156	180	8×19	M16
I100/250	100	220	156	180	8×19	M16
I100/315	100	220	156	180	8×19	M16
I100/400	100	220	156	180	8×19	M16
I125/160	125	250	184	210	8×19	M16
I125/200	125	250	184	210	8×19	M16
I125/250	125	270	184	210	8×19	M16
I125/315	125	270	184	210	8×19	M16
I125/400	125	250	184	210	8×19	M16
I150/200	150	300	211	240	8×23	M20
I150/250	150	285	211	240	8×23	M20
I150/315	150	300	211	240	8×23	M20
I150/400	150	300	211	240	8×23	M20
I200/200	200	340	266	295	12×23	M20
I200/250	200	360	274	295	12×23	M20
I200/315	200	360	274	295	12×23	M20
I200/400	200	360	274	295	12×23	M20

* 표준은 EN 1092-2 PN16에 따르고, 스테인리스 스틸 또는 주강 펌프하우징의 플랜지는 EN 1092-1 PN16/PN25에 따름.
 * 동일 구경에서 모델별로 ØD가 상이할 수 있음. (단, EN 1092-2 규격의 공차는 만족함.)

In-Line Pumps

Atmos GIGA-I Series

Atmos GIGA-I Series

외형치수

외형치수 DN32~DN50																		
Model (Atmos GIGA-)	DN	P2 (kW)	Pole	Dimensions(mm)														Weight (kg)
				a	b1	b2	c	e	f	Øg	LO	~L1	m	o	p	p1	x	
I32/160-0.4/4	32	0.4	4	100	122	122	120	132	60	170	320	427	155	M12	19	142	120	46
I32/160-0.55/4	32	0.55	4	100	122	122	120	132	60	170	320	456	155	M12	19	142	120	50
I32/160-0.75/4	32	0.75	4	100	122	122	120	132	60	170	320	456	155	M12	19	142	120	50
I32/160-1.1/4	32	1.1	4	100	122	122	120	132	60	170	320	456	155	M12	19	142	120	53
I32/160-3/2	32	3	2	100	125	125	120	132	60	195	320	550	155	M12	19	151	120	68
I32/160-3.7/2	32	3.7	2	100	125	125	120	132	60	195	320	550	155	M12	19	151	120	73
I32/160-4/2	32	4	2	100	125	125	120	132	60	195	320	550	155	M12	19	151	120	73
I32/160-5.5/2	32	5.5	2	100	150	150	120	132	60	255	320	631	155	M12	19	194	120	91
I32/160-7.5/2	32	7.5	2	100	150	150	120	132	60	255	320	631	155	M12	19	194	120	96
I32/160-11/2	32	11	2	100	175	175	120	132	60	284	320	735	155	M12	19	206	120	122
I40/160-0.4/4	40	0.4	4	82	122	130	130	135	65	170	340	431	160	M12	19	142	120	47
I40/160-0.55/4	40	0.55	4	82	122	130	130	135	65	170	340	460	160	M12	19	142	120	51
I40/160-0.75/4	40	0.75	4	82	122	130	130	135	65	170	340	460	160	M12	19	142	120	51
I40/160-1.1/4	40	1.1	4	82	122	130	130	135	65	170	340	460	160	M12	19	142	120	54
I40/160-1.5/4	40	1.5	4	82	122	130	130	135	65	196	340	500	160	M12	19	155	120	59
I40/160-3.7/2	40	3.7	2	82	125	130	130	135	65	195	340	554	160	M12	19	151	120	73
I40/160-4/2	40	4	2	82	125	130	130	135	65	195	340	554	160	M12	19	151	120	73
I40/160-5.5/2	40	5.5	2	82	150	150	130	135	65	255	340	635	160	M12	19	194	120	92
I40/160-7.5/2	40	7.5	2	82	150	150	130	135	65	255	340	635	160	M12	19	194	120	97
I40/160-11/2	40	11	2	82	175	175	130	135	65	284	340	739	160	M12	19	206	120	122
I40/200-1.1/4	40	1.1	4	90	139	150	155	138	78	170	390	459	180	M12	19	142	120	62
I40/200-1.5/4	40	1.5	4	90	139	150	155	138	78	196	390	499	180	M12	19	155	120	67
I40/200-2.2/4	40	2.2	4	90	139	150	155	138	78	196	390	553	180	M12	19	151	120	80
I40/200-3/4	40	3	4	90	139	150	155	138	78	255	390	613	180	M12	19	192	120	87
I40/200-7.5/2	40	7.5	2	90	150	150	155	138	78	255	390	634	180	M12	19	194	120	104
I40/200-11/2	40	11	2	90	175	175	155	138	78	284	390	738	180	M12	19	206	120	131
I40/200-15/2	40	15	2	90	175	175	155	138	78	284	390	738	180	M12	19	224	120	141
I40/200-18.5/2	40	18.5	2	90	175	175	155	138	78	319	390	773	180	M12	19	288	120	211
I40/200-22/2	40	22	2	90	175	175	155	138	78	319	390	773	180	M12	19	288	120	212
I50/125-0.55/4	50	0.55	4	105	107	114	126	120	63	170	340	467	140	M12	19	142	120	50
I50/125-0.75/4	50	0.75	4	105	107	114	126	120	63	170	340	467	140	M12	19	142	120	50
I50/125-1.1/4	50	1.1	4	105	107	114	126	120	63	170	340	467	140	M12	19	142	120	53
I50/125-1.5/4	50	1.5	4	105	107	114	126	120	63	196	340	507	140	M12	19	155	120	58
I50/125-4/2	50	4	2	105	125	125	126	120	63	195	340	561	140	M12	19	151	120	73
I50/125-5.5/2	50	5.5	2	105	150	150	126	120	63	255	340	642	140	M12	19	194	120	92
I50/125-7.5/2	50	7.5	2	105	150	150	126	120	63	255	340	642	140	M12	19	194	120	97
I50/125-11/2	50	11	2	105	175	175	126	120	63	284	340	746	140	M12	19	206	120	122
I50/160-1.1/4	50	1.1	4	103	121	136	125	135	62.5	170	340	464	160	M12	19	142	120	57
I50/160-1.5/4	50	1.5	4	103	121	136	125	135	62.5	196	340	504	160	M12	19	155	120	62
I50/160-2.2/4	50	2.2	4	103	125	136	125	135	62.5	196	340	558	160	M12	19	151	120	76
I50/160-5.5/2	50	5.5	2	103	150	150	125	135	62.5	255	340	639	160	M12	19	194	120	95
I50/160-7.5/2	50	7.5	2	103	150	150	125	135	62.5	255	340	639	160	M12	19	194	120	100
I50/160-11/2	50	11	2	103	175	175	125	135	62.5	284	340	743	160	M12	19	206	120	126
I50/160-15/2	50	15	2	103	175	175	125	135	62.5	284	340	743	160	M12	19	224	120	136
I50/160-18.5/2	50	18.5	2	103	175	175	125	135	62.5	319	340	778	160	M12	19	288	120	206
I50/200-1.5/4	50	1.5	4	120	140	147	160	155	80	196	440	504	180	M12	19	155	120	71
I50/200-2.2/4	50	2.2	4	120	140	147	160	155	80	196	440	558	180	M12	19	151	120	84
I50/200-3/4	50	3	4	120	140	147	160	155	80	255	440	617	180	M12	19	192	120	91
I50/200-3.7/4	50	3.7	4	120	140	147	160	155	80	255	440	617	180	M12	19	192	120	93
I50/200-11/2	50	11	2	120	175	175	160	155	80	284	440	743	180	M12	19	206	130	135
I50/200-15/2	50	15	2	120	175	175	160	155	80	284	440	743	180	M12	19	224	130	145
I50/200-18.5/2	50	18.5	2	120	175	175	160	155	80	319	440	778	180	M12	19	288	130	215
I50/200-22/2	50	22	2	120	175	175	160	155	80	319	440	778	180	M12	19	288	130	215
I50/250-3/4	50	3	4	122	164	172	200	190	100	255	440	621	215	M12	19	192	120	108
I50/250-3.7/4	50	3.7	4	122	164	172	200	190	100	255	440	621	215	M12	19	192	120	110
I50/250-4/4	50	4	4	122	164	172	200	190	100	255	440	621	215	M12	19	192	120	112
I50/250-5.5/4	50	5.5	4	122	164	172	200	190	100	282	440	712	215	M12	19	205	120	130
I50/250-7.5/4	50	7.5	4	122	164	172	200	190	100	282	440	712	215	M12	19	205	120	135
I50/250-18.5/2	50	18.5	2	122	175	175	200	190	100	319	440	782	215	M12	19	288	130	228
I50/250-22/2	50	22	2	122	175	175	200	190	100	319	440	782	215	M12	19	288	130	229
I50/250-30/2	50	30	2	122	200	200	200	190	100	359	440	865	215	M12	19	317	130	296

*전동기 제조업체에 따라 전동기 관련 치수 및 중량은 달라질 수 있음.

*43kW 이상 모델의 카트리지가 미캐니컬 실 옵션은 영업 담당자에게 별도 문의 바랍니다.

In-Line Pumps

Atmos GIGA-I Series



Atmos GIGA-I Series 외형치수

외형치수 DN65~DN80																		
Model (Atmos GIGA-)	DN	P2 (kW)	Pole	Dimensions(mm)														Weight (kg)
				a	b1	b2	c	e	f	Øg	L0	~L1	m	o	p	p1	x	
I65/125-0.75/4	65	0.75	4	120	106	119	120	105	60	170	340	469	160	M12	19	142	120	51
I65/125-1.1/4	65	1.1	4	120	106	119	120	105	60	170	340	469	160	M12	19	142	120	54
I65/125-1.5/4	65	1.5	4	120	106	119	120	105	60	196	340	509	160	M12	19	155	120	59
I65/125-2.2/4	65	2.2	4	120	125	125	120	105	60	196	340	563	160	M12	19	151	120	73
I65/125-5.5/2	65	5.5	2	120	150	150	120	105	60	255	340	644	160	M12	19	194	120	93
I65/125-7.5/2	65	7.5	2	120	150	150	120	105	60	255	340	644	160	M12	19	194	120	98
I65/125-11/2	65	11	2	120	175	175	120	105	60	284	340	748	160	M12	19	206	120	123
I65/125-15/2	65	15	2	120	175	175	120	105	60	284	340	748	160	M12	19	224	120	133
I65/160-1.5/4	65	1.5	4	110	131	138	160	150	80	196	430	506	200	M12	19	155	120	69
I65/160-2.2/4	65	2.2	4	110	131	138	160	150	80	196	430	560	200	M12	19	151	120	83
I65/160-3/4	65	3	4	110	131	138	160	150	80	255	430	619	200	M12	19	192	120	90
I65/160-11/2	65	11	2	110	175	175	160	150	80	284	430	745	200	M12	19	206	130	131
I65/160-15/2	65	15	2	110	175	175	160	150	80	284	430	745	200	M12	19	224	130	141
I65/160-18.5/2	65	18.5	2	110	175	175	160	150	80	319	430	780	200	M12	19	288	130	211
I65/160-22/2	65	22	2	110	175	175	160	150	80	319	430	780	200	M12	19	288	130	211
I65/200-2.2/4	65	2.2	4	130	148	166	185	165	92.5	196	475	559	215	M12	19	151	120	94
I65/200-3/4	65	3	4	130	148	166	185	165	92.5	255	475	618	215	M12	19	192	120	101
I65/200-3.7/4	65	3.7	4	130	148	166	185	165	92.5	255	475	618	215	M12	19	192	120	103
I65/200-4/4	65	4	4	130	148	166	185	165	92.5	255	475	618	215	M12	19	192	120	105
I65/200-5.5/4	65	5.5	4	130	150	166	185	165	92.5	282	475	709	215	M12	19	205	120	126
I65/200-18.5/2	65	18.5	2	130	175	175	185	165	92.5	319	475	779	215	M12	19	288	130	225
I65/200-22/2	65	22	2	130	175	175	185	165	92.5	319	475	779	215	M12	19	288	130	225
I65/200-30/2	65	30	2	130	200	200	185	165	92.5	359	475	862	215	M12	19	317	130	294
I65/200-37/2	65	37	2	130	200	200	185	165	92.5	402	475	923	215	M12	19	409	130	369
I65/200-45/2	65	45	2	130	200	200	185	165	92.5	402	475	923	215	M12	19	409	130	379
I65/250-3.7/4	65	3.7	4	140	165	178	200	170	100	255	475	629	225	M12	19	192	120	114
I65/250-4/4	65	4	4	140	165	178	200	170	100	255	475	629	225	M12	19	192	120	116
I65/250-5.5/4	65	5.5	4	140	165	178	200	170	100	282	475	719	225	M12	19	205	120	134
I65/250-7.5/4	65	7.5	4	140	165	178	200	170	100	282	475	719	225	M12	19	205	120	139
I65/250-11/4	65	11	4	140	175	178	200	170	100	319	475	789	225	M12	19	288	120	202
I65/250-30/2	65	30	2	140	200	200	200	170	100	359	475	872	225	M12	19	317	130	300
I65/250-37/2	65	37	2	140	200	200	200	170	100	402	475	933	225	M12	19	409	130	375
I65/250-45/2	65	45	2	140	200	200	200	170	100	402	475	933	225	M12	19	409	130	385
I80/125-1.1/4	80	1.1	4	105	118	155	153	193	62	170	400	478	215	M12	19	142	120	60
I80/125-1.5/4	80	1.5	4	105	118	155	153	193	62	196	400	518	215	M12	19	155	120	65
I80/125-2.2/4	80	2.2	4	105	125	155	153	193	62	196	400	572	215	M12	19	151	120	79
I80/125-3/4	80	3	4	105	125	155	153	193	62	255	400	631	215	M12	19	192	120	86
I80/125-11/2	80	11	2	105	175	175	153	193	62	284	400	757	215	M12	19	206	130	128
I80/125-15/2	80	15	2	105	175	175	153	193	62	284	400	757	215	M12	19	224	130	138
I80/125-18.5/2	80	18.5	2	105	175	175	153	193	62	319	400	792	215	M12	19	288	130	208
I80/160-1.5/4	80	1.5	4	120	122	151	160	175	80	196	440	513	200	M12	19	155	120	71
I80/160-2.2/4	80	2.2	4	120	125	151	160	175	80	196	440	567	200	M12	19	151	120	85
I80/160-3/4	80	3	4	120	125	151	160	175	80	255	440	627	200	M12	19	192	120	92
I80/160-3.7/4	80	3.7	4	120	125	151	160	175	80	255	440	627	200	M12	19	192	120	94
I80/160-4/4	80	4	4	120	125	151	160	175	80	255	440	627	200	M12	19	192	120	96
I80/160-18.5/2	80	18.5	2	120	175	175	160	175	80	319	440	787	200	M12	19	288	130	213
I80/160-22/2	80	22	2	120	175	175	160	175	80	319	440	787	200	M12	19	288	130	214
I80/160-30/2	80	30	2	120	200	200	160	175	80	359	440	870	200	M12	19	317	130	285
I80/200-3.7/4	80	3.7	4	145	149	167	190	195	95	255	500	625	225	M12	19	192	160	107
I80/200-4/4	80	4	4	145	149	167	190	195	95	255	500	625	225	M12	19	192	160	109
I80/200-5.5/4	80	5.5	4	145	150	167	190	195	95	282	500	716	225	M12	19	205	160	130
I80/200-7.5/4	80	7.5	4	145	150	167	190	195	95	282	500	716	225	M12	19	205	160	135
I80/200-11/4	80	11	4	145	175	175	190	195	95	319	500	786	225	M12	19	288	160	199
I80/200-22/2	80	22	2	145	175	175	190	195	95	319	500	786	225	M12	19	288	160	230
I80/200-30/2	80	30	2	145	200	200	190	195	95	359	500	869	225	M12	19	317	160	299
I80/200-37/2	80	37	2	145	200	200	190	195	95	402	500	930	225	M12	19	409	160	374
I80/200-45/2	80	45	2	145	200	200	190	195	95	402	500	930	225	M12	19	409	160	384
I80/250-5.5/4	80	5.5	4	125	174	196	170	225	85	282	500	749	250	M12	19	205	160	153
I80/250-7.5/4	80	7.5	4	125	174	196	170	225	85	282	500	749	250	M12	19	205	160	158
I80/250-11/4	80	11	4	125	175	196	170	225	85	319	500	819	250	M12	19	288	160	216
I80/250-15/4	80	15	4	125	175	196	170	225	85	319	500	819	250	M12	19	288	160	236
I80/315-11/4	80	11	4	140	220	229	173	208	86.5	319	620	817	280	M12	19	288	160	256
I80/315-15/4	80	15	4	140	220	229	173	208	86.5	319	620	817	280	M12	19	288	160	276
I80/315-18.5/4	80	18.5	4	140	220	229	173	208	86.5	359	620	840	280	M12	19	309	160	311
I80/315-22/4	80	22	4	140	220	229	173	208	86.5	359	620	840	280	M12	19	309	160	321
I80/315-30/4	80	30	4	140	220	229	173	208	86.5	359	620	900	280	M12	19	317	160	389

* 전동기 제조업체에 따라 전동기 관련 치수 및 중량은 달라질 수 있음.
 * 4극 37kW 이상 모델의 카트리지가 미케니컬 실 옵션은 영업 담당자에게 별도 문의 바랍니다.

In-Line Pumps

Atmos GIGA-I Series

Atmos GIGA-I Series

외형치수

외형치수 DN100~DN125																		
Model (Atmos GIGA-)	DN	P2 (kW)	Pole	Dimensions(mm)														Weight (kg)
				a	b1	b2	c	e	f	Øg	LO	~L1	m	o	p	p1	x	
I100/160-2.2/4	100	2.2	4	120	136	185	155.6	222	77.8	196	500	581	250	M12	19	151	160	96
I100/160-3/4	100	3	4	120	136	185	155.6	222	77.8	255	500	641	250	M12	19	192	160	103
I100/160-3.7/4	100	3.7	4	120	136	185	155.6	222	77.8	255	500	641	250	M12	19	192	160	105
I100/160-4/4	100	4	4	120	136	185	155.6	222	77.8	255	500	641	250	M12	19	192	160	107
I100/160-5.5/4	100	5.5	4	120	150	185	155.6	222	77.8	282	500	731	250	M12	19	205	160	129
I100/160-22/2	100	22	2	120	175	185	155.6	222	77.8	319	500	801	250	M12	19	288	160	225
I100/160-30/2	100	30	2	120	200	200	155.6	222	77.8	359	500	884	250	M12	19	317	160	296
I100/160-37/2	100	37	2	120	200	200	155.6	222	77.8	402	500	945	250	M12	19	409	160	371
I100/160-45/2	100	45	2	120	200	200	155.6	222	77.8	402	500	945	250	M12	19	409	160	381
I100/200-4/4	100	4	4	155	161	197	210	231	105	255	550	662	250	M12	19	192	160	132
I100/200-5.5/4	100	5.5	4	155	161	197	210	231	105	282	550	752	250	M12	19	205	160	155
I100/200-7.5/4	100	7.5	4	155	161	197	210	231	105	282	550	752	250	M12	19	205	160	160
I100/200-11/4	100	11	4	155	175	197	210	231	105	319	550	822	250	M12	19	288	160	224
I100/200-37/2	100	37	2	155	200	200	210	231	105	402	550	966	250	M12	19	409	160	397
I100/200-45/2	100	45	2	155	200	200	210	231	105	402	550	966	250	M12	19	409	160	407
I100/200-55/2	100	55	2	155	225	225	210	231	105	514	550	1057	250	M12	19	480	160	610
I100/200-75/2	100	75	2	155	275	275	210	231	105	615	550	1257	250	M12	19	560	160	856
I100/250-7.5/4	100	7.5	4	180	185	216	240	236	114	282	550	759	270	M12	19	205	160	177
I100/250-11/4	100	11	4	180	185	216	240	236	114	319	550	829	270	M12	19	288	160	235
I100/250-15/4	100	15	4	180	185	216	240	236	114	319	550	829	270	M12	19	288	160	255
I100/250-18.5/4	100	18.5	4	180	185	216	240	236	114	359	550	852	270	M12	19	309	160	291
I100/250-22/4	100	22	4	180	185	216	240	236	114	359	550	852	270	M12	19	309	160	301
I100/315-15/4	100	15	4	170	246	221	210	291	105	319	700	826	315	M12	19	288	160	290
I100/315-18.5/4	100	18.5	4	170	246	221	210	291	105	359	700	849	315	M12	19	309	160	326
I100/315-22/4	100	22	4	170	246	221	210	291	105	359	700	849	315	M12	19	309	160	336
I100/315-30/4	100	30	4	170	246	221	210	291	105	359	700	909	315	M12	19	317	160	403
I100/315-37/4	100	37	4	170	246	225	210	291	105	402	700	1001	315	M12	19	412	160	515
I100/315-45/4	100	45	4	170	246	225	210	291	105	402	700	1001	315	M12	19	412	160	545
I100/400-30/4	100	30	4	185	276	276	284	331	142	359	760	931	355	M12	20	317	160	469
I100/400-37/4	100	37	4	185	276	276	284	331	142	402	760	1023	355	M12	20	412	160	579
I100/400-45/4	100	45	4	185	276	276	284	331	142	402	760	1023	355	M12	20	412	160	609
I100/400-55/4	100	55	4	185	276	276	284	331	142	445	760	1028	355	M12	20	443	160	630
I100/400-75/4	100	75	4	185	276	276	284	331	142	514	760	1223	355	M12	20	480	160	733
I100/400-90/4	100	90	4	185	276	276	284	331	142	514	760	1223	355	M12	20	480	160	763
I125/160-4/4	125	4	4	175	147	196	200	251	78	255	620	661	280	M16	25	192	160	133
I125/160-5.5/4	125	5.5	4	175	150	196	200	251	78	282	620	752	280	M16	25	205	160	154
I125/160-7.5/4	125	7.5	4	175	150	196	200	251	78	282	620	752	280	M16	25	205	160	159
I125/160-37/2	125	37	2	175	200	200	200	251	78	402	620	966	280	M16	25	409	160	396
I125/160-45/2	125	45	2	175	200	200	200	251	78	402	620	966	280	M16	25	409	160	406
I125/200-5.5/4	125	5.5	4	175	156	212	230	250	115	282	620	764	280	M16	25	205	160	161
I125/200-7.5/4	125	7.5	4	175	156	212	230	250	115	282	620	764	280	M16	25	205	160	166
I125/200-11/4	125	11	4	175	175	212	230	250	115	319	620	834	280	M16	25	288	160	229
I125/200-15/4	125	15	4	175	175	212	230	250	115	319	620	834	280	M16	25	288	160	249
I125/200-18.5/4	125	18.5	4	175	175	212	230	250	115	359	620	857	280	M16	25	309	160	285
I125/250-11/4	125	11	4	200	187	227	190	254	95	319	620	837	280	M16	25	288	160	247
I125/250-15/4	125	15	4	200	187	227	190	254	95	319	620	837	280	M16	25	288	160	267
I125/250-18.5/4	125	18.5	4	200	187	227	190	254	95	359	620	860	280	M16	25	309	160	302
I125/250-22/4	125	22	4	200	187	227	190	254	95	359	620	860	280	M16	25	309	160	312
I125/250-30/4	125	30	4	200	200	227	190	254	95	359	620	920	280	M16	25	317	160	378
I125/315-22/4	125	22	4	185	235	263	280	315	140	359	700	870	340	M16	25	309	160	365
I125/315-30/4	125	30	4	185	235	263	280	315	140	359	700	930	340	M16	25	317	160	433
I125/315-37/4	125	37	4	185	235	263	280	315	140	402	700	1022	340	M16	25	412	160	544
I125/315-45/4	125	45	4	185	235	263	280	315	140	402	700	1022	340	M16	25	412	160	574
I125/315-55/4	125	55	4	185	235	263	280	315	140	445	700	1027	340	M16	25	443	160	595
I125/400-37/4	125	37	4	215	276	286	284	329	142	402	860	1035	355	M16	25	412	160	610
I125/400-45/4	125	45	4	215	276	286	284	329	142	402	860	1035	355	M16	25	412	160	640
I125/400-55/4	125	55	4	215	276	286	284	329	142	445	860	1040	355	M16	25	443	160	661
I125/400-75/4	125	75	4	215	276	286	284	329	142	514	860	1235	355	M16	25	480	160	765
I125/400-90/4	125	90	4	215	276	286	284	329	142	514	860	1235	355	M16	25	480	160	795
I125/400-110/4	125	110	4	215	330	330	284	329	142	617	860	1475	355	M16	25	560	160	1026

* 전동기 제조업체에 따라 전동기 관련 치수 및 중량은 달라질 수 있음.

* 4극 37kW 이상 모델의 카트리지가 기계적 실 옵션은 영업 담당자에게 별도 문의 바랍니다.

In-Line Pumps

Atmos GIGA-I Series



Atmos GIGA-I Series 외형치수

외형치수 DN150~DN200																		
Model (Atmos GIGA-)	DN	P2 (kW)	Pole	Dimensions(mm)														Weight (kg)
				a	b1	b2	c	e	f	Øg	L0	~L1	m	o	p	p1	x	
I150/200-11/4	150	11	4	200	175	237	244	290	122	319	700	831	315	M16	25	288	160	252
I150/200-15/4	150	15	4	200	175	237	244	290	122	319	700	831	315	M16	25	288	160	272
I150/200-18.5/4	150	18.5	4	200	175	237	244	290	122	359	700	854	315	M16	25	309	160	308
I150/200-22/4	150	22	4	200	175	237	244	290	122	359	700	854	315	M16	25	309	160	318
I150/250-18.5/4	150	18.5	4	230	187	244	230	330	115	359	700	864	355	M16	25	309	160	329
I150/250-22/4	150	22	4	230	187	244	230	330	115	359	700	864	355	M16	25	309	160	339
I150/250-30/4	150	30	4	230	200	244	230	330	115	359	700	924	355	M16	25	317	160	407
I150/250-37/4	150	37	4	230	225	244	230	330	115	402	700	1016	355	M16	25	412	160	519
I150/315-22/4	150	22	4	230	221	272	280	350	140	359	770	874	380	M16	25	309	160	385
I150/315-30/4	150	30	4	230	221	272	280	350	140	359	770	934	380	M16	25	317	160	449
I150/315-37/4	150	37	4	230	225	272	280	350	140	402	770	1025	380	M16	25	412	160	556
I150/315-45/4	150	45	4	230	225	272	280	350	140	402	770	1025	380	M16	25	412	160	586
I150/315-55/4	150	55	4	230	225	272	280	350	140	445	770	1030	380	M16	25	443	160	607
I150/315-75/4	150	75	4	230	275	275	280	350	140	514	770	1225	380	M16	25	480	160	722
I150/315-90/4	150	90	4	230	275	275	280	350	140	514	770	1225	380	M16	25	480	160	752
I150/400-55/4	150	55	4	215	285	309	284	374	142	445	940	1038	400	M16	25	443	160	676
I150/400-75/4	150	75	4	215	285	309	284	374	142	514	940	1234	400	M16	25	480	160	789
I150/400-90/4	150	90	4	215	285	309	284	374	142	514	940	1234	400	M16	25	480	160	819
I150/400-110/4	150	110	4	215	330	330	284	374	142	617	940	1473	400	M16	25	560	160	1045
I150/400-132/4	150	132	4	215	330	330	284	374	142	617	940	1473	400	M16	25	560	160	1115
I150/400-160/4	150	160	4	215	330	330	284	374	142	657	940	1656	400	M16	25	590	160	1515
I200/200-15/4	200	15	4	245	213	309	260	339.5	130	319	800	851	370	M16	25	288	160	323
I200/200-18.5/4	200	18.5	4	245	213	309	260	339.5	130	359	800	874	370	M16	25	309	160	359
I200/200-22/4	200	22	4	245	213	309	260	339.5	130	359	800	874	370	M16	25	309	160	369
I200/200-30/4	200	30	4	245	213	309	260	339.5	130	359	800	934	370	M16	25	317	160	432
I200/250-18.5/4	200	18.5	4	245	200	277	270	300	135	359	800	897	400	M16	25	309	160	379
I200/250-22/4	200	22	4	245	200	277	270	300	135	359	800	897	400	M16	25	309	160	389
I200/250-30/4	200	30	4	245	200	277	270	300	135	359	800	957	400	M16	25	317	160	455
I200/250-37/4	200	37	4	245	225	277	270	300	135	402	800	1049	400	M16	25	412	160	568
I200/250-45/4	200	45	4	245	225	277	270	300	135	402	800	1049	400	M16	25	412	160	598
I200/315-37/4	200	37	4	245	225	279	290	360	145	402	820	1048	395	M16	25	412	160	590
I200/315-45/4	200	45	4	245	225	279	290	360	145	402	820	1048	395	M16	25	412	160	620
I200/315-55/4	200	55	4	245	225	279	290	360	145	445	820	1053	395	M16	25	443	160	640
I200/315-75/4	200	75	4	245	275	279	290	360	145	514	820	1248	395	M16	25	480	160	755
I200/315-90/4	200	90	4	245	275	279	290	360	145	514	820	1248	395	M16	25	480	160	785
I200/400-90/4	200	90	4	290	296	353	330	465	185	514	1100	1233	550	M16	20	480	160	938
I200/400-110/4	200	110	4	290	330	353	330	465	185	617	1100	1473	550	M16	20	560	190	1164
I200/400-132/4	200	132	4	290	330	353	330	465	185	617	1100	1473	550	M16	20	560	190	1234
I200/400-160/4	200	160	4	290	330	353	330	465	185	657	1100	1656	550	M16	20	590	190	1634
I200/400-200/4	200	200	4	290	330	353	330	465	185	657	1100	1656	550	M16	20	590	190	1734

* 전동기 제조업체에 따라 전동기 관련 치수 및 중량은 달라질 수 있음.
 * 4극 37kW 이상 모델의 카트리지가 기계적 실 음션은 영업 담당자에게 별도 문의 바랍니다.

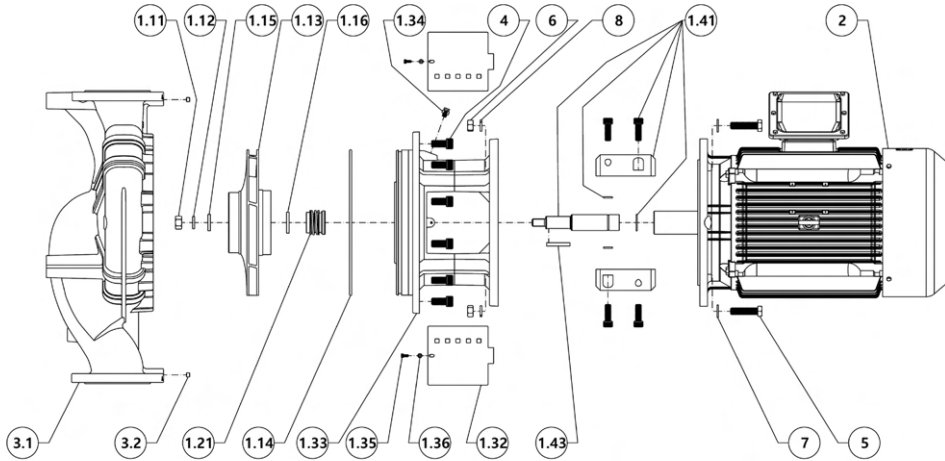
In-Line Pumps

Atmos GIGA-I Series

Atmos GIGA-I Series 분해도

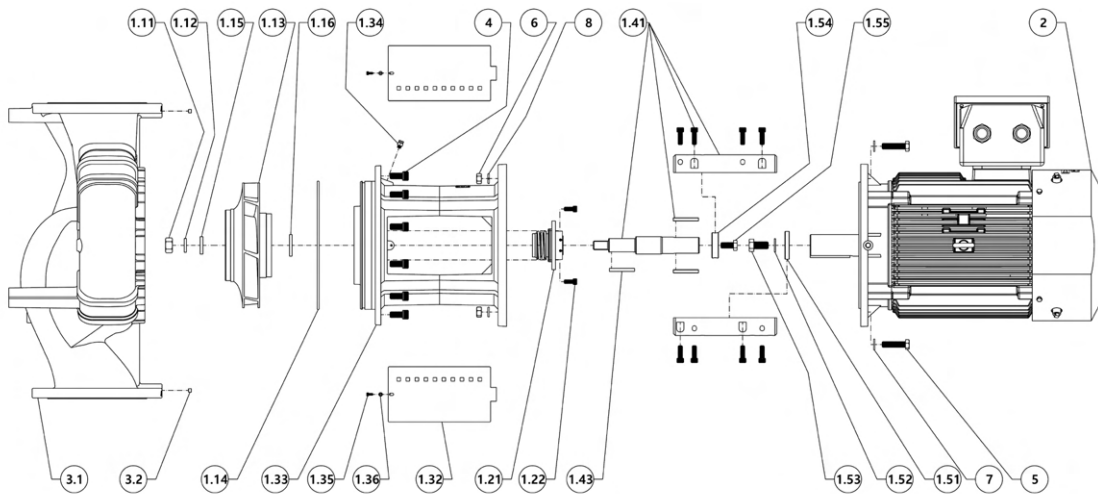
*대표 분해도로 모델별 형상이나 구성이 다를 수 있습니다.

표준 미케니컬 실



*대표 분해도로 모델별 형상이나 구성이 다를 수 있습니다.

(옵션)카트리지 미케니컬 실



부품 List			
품번	품명	재질	수량
1.11	임펠러 너트(Impeller Nut)	STS304	1
1.12	스프링 와셔(Spring Washer)	STS304	1
1.13	임펠러(Impeller)	EN-GJL-200	1
1.14	오-링(O-Ring)	EPDM	1
1.15	임펠러 와셔(Impeller Washer)	STS304	1
1.16	스페이서 디스크(Spacer Disc)	1.4021	1
1.21	미케니컬 실(Mechanical Seal) 또는 카트리지 미케니컬 실 (Cartridge Mechanical Seal)	SiC/Carbon /EPDM	1
1.22	소켓 볼트(Socket Bolt)	-	4
1.32	커플링 가드(Coupling Guard)	AISI 430	2
1.33	랜턴(Lantern)	EN-GJL-250	1
1.34	공기빼기 밸브(Ventilation Valve)	-	1
1.35	소켓 볼트(Socket Bolt)	-	2/4
1.36	평 와셔(Plain Washer)	-	2/4

부품 List			
품번	품명	재질	수량
1.41	커플링 세트(Coupling Set)	-	1
1.43	임펠러 키(Impeller Key)	STS304	1/2
1.51	커플링 와셔-전동기 축(Coupling Washer)	C45	-/1
1.52	평 와셔(Plain Washer)	SCP1	-/1
1.53	육각 볼트(Hexagon Bolt)	SM20C	-/1
1.54	커플링 와셔-펌프 축(Coupling Washer)	C45	-/1
1.55	육각 볼트(Hexagon Bolt)	SM20C	-/1
2	전동기(Motor)	-	1
3.1	펌프하우징(Pump Housing)	EN-GJL-250	1
3.2	플러그(Screw Plug)	-	2
4	소켓 볼트(Socket Bolt)	-	4/8/12/16
5	육각 볼트(Hexagon Bolt)	SM20C	4/8
6	육각 너트(Hexagon Nut)	SM20C	-/4/8
7	평 와셔(Plain Washer)	SCP1	-/4/8
8	스프링 와셔(Spring washer)	SWRH	4/8

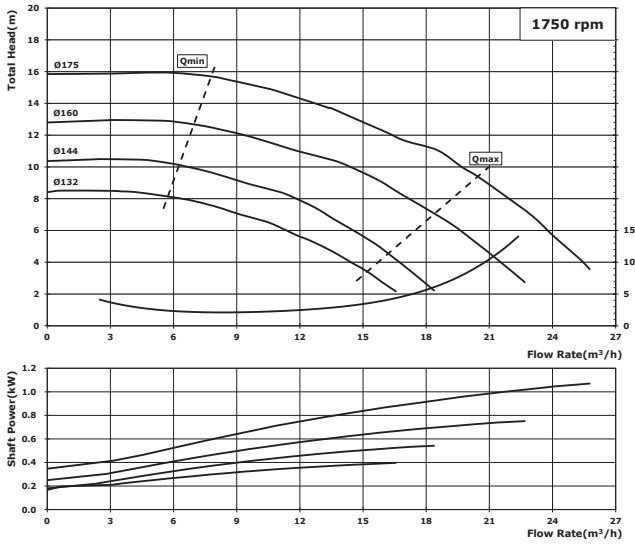
In-Line Pumps

Atmos GIGA-I Series

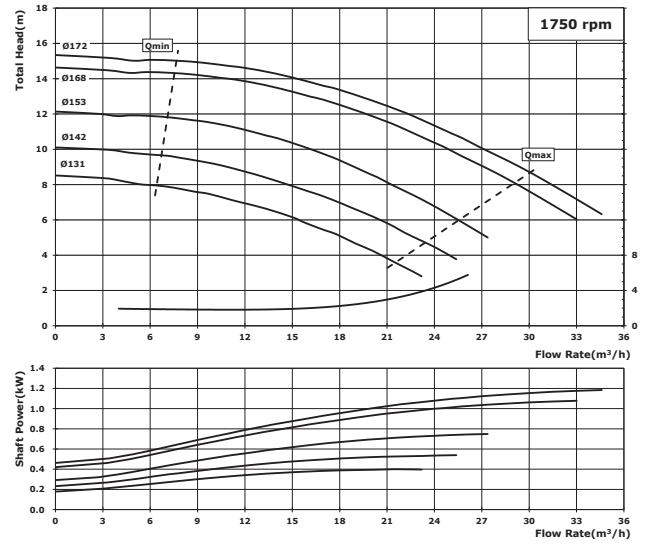


Atmos GIGA-I Series 성능곡선 4pole

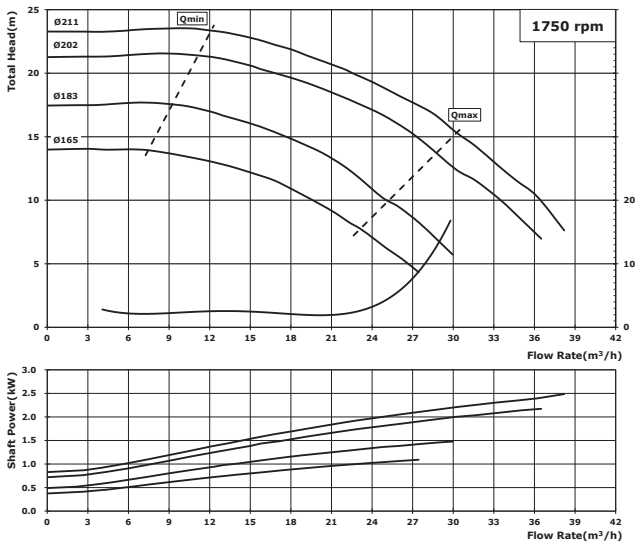
Atmos GIGA-I32/160



Atmos GIGA-I40/160



Atmos GIGA-I40/200



※ Acceptance Grade : ISO 9906 : 2012 - 2B
 ※ 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

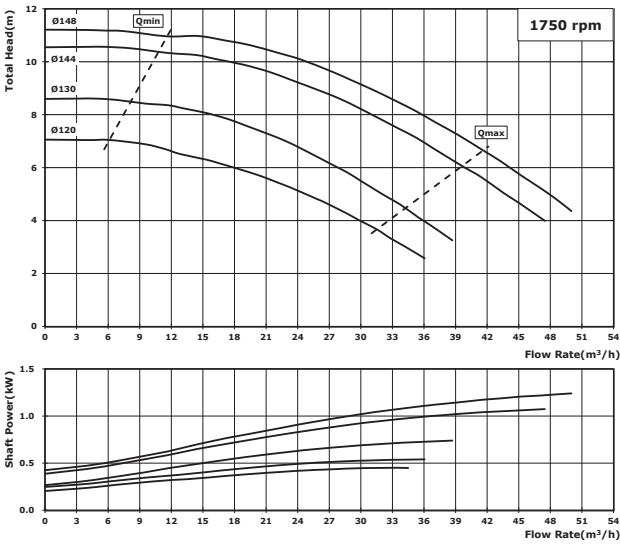
In-Line Pumps

Atmos GIGA-I Series

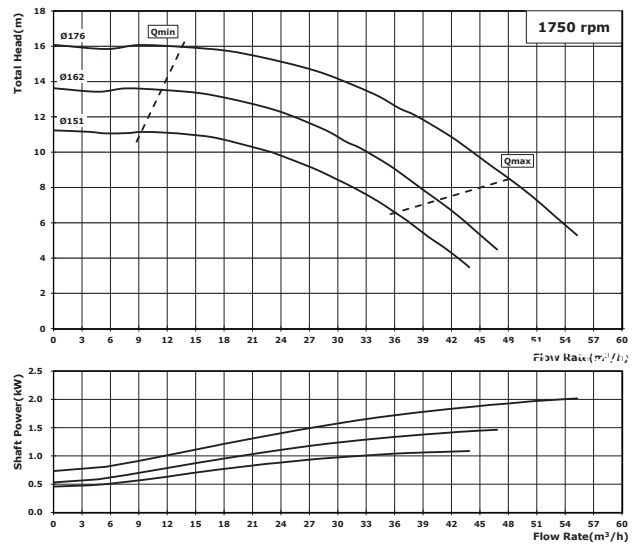
Atmos GIGA-I Series

성능곡선 4pole

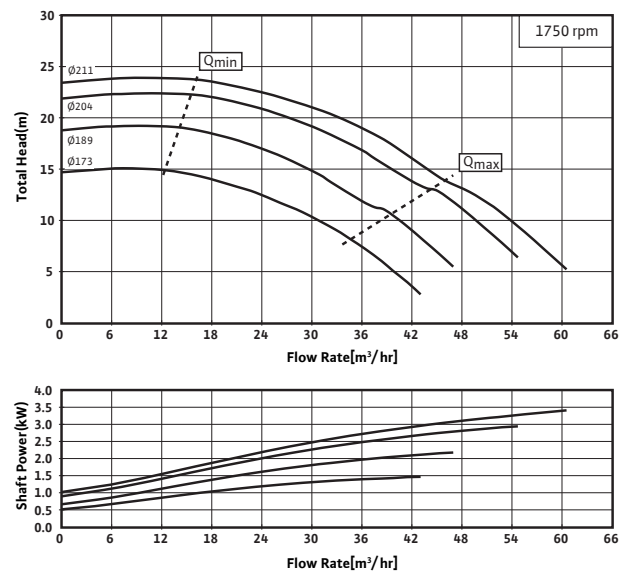
Atmos GIGA-I50/125



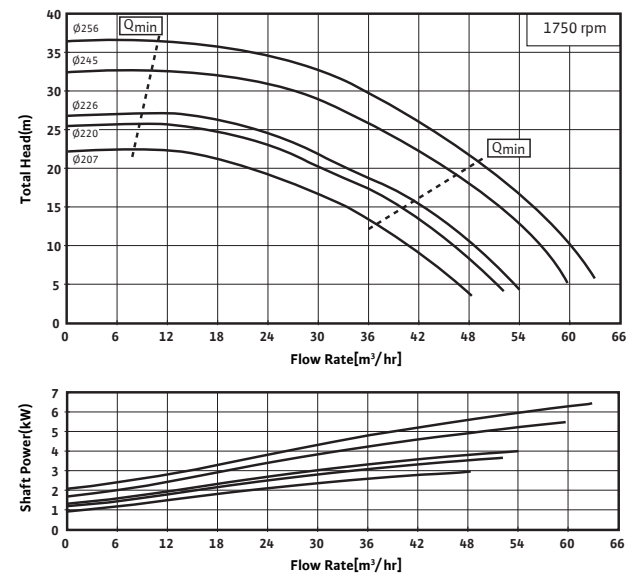
Atmos GIGA-I50/160



Atmos GIGA-I50/200



Atmos GIGA-I50/250



* Acceptance Grade : ISO 9906 : 2012 - 2B

* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

In-Line Pumps

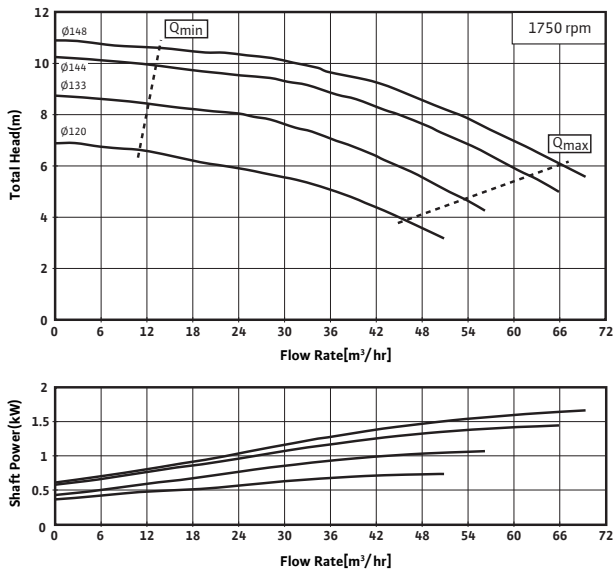
Atmos GIGA-I Series



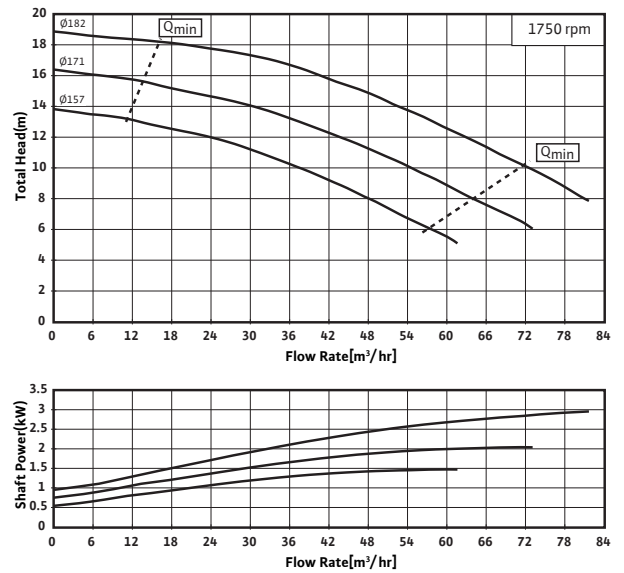
Atmos GIGA-I Series

성능곡선 4pole

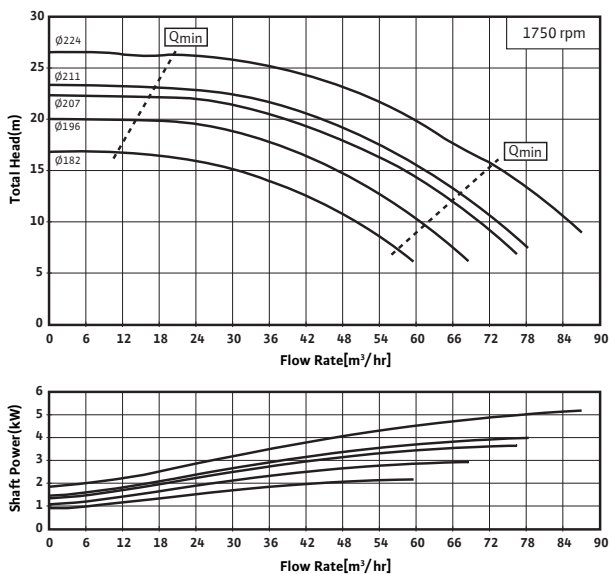
Atmos GIGA-I65/125



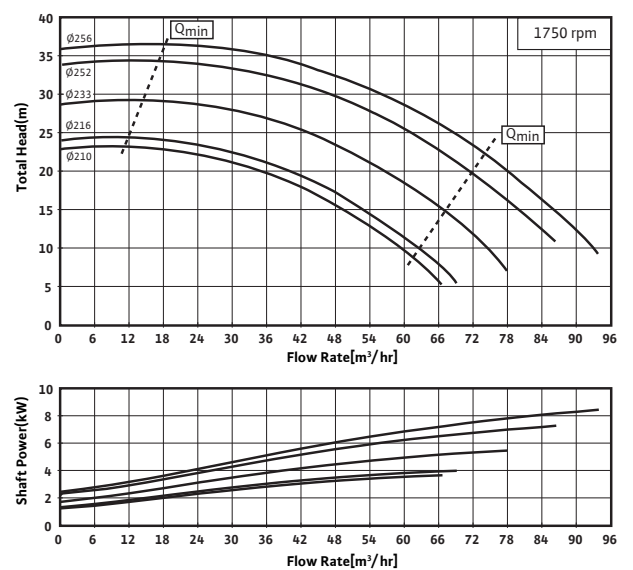
Atmos GIGA-I65/160



Atmos GIGA-I65/200



Atmos GIGA-I65/250



* Acceptance Grade : ISO 9906 : 2012 - 2B

* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

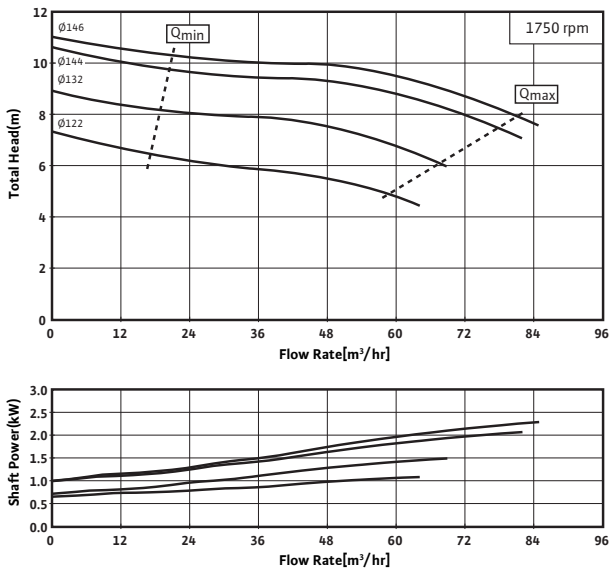
In-Line Pumps

Atmos GIGA-I Series

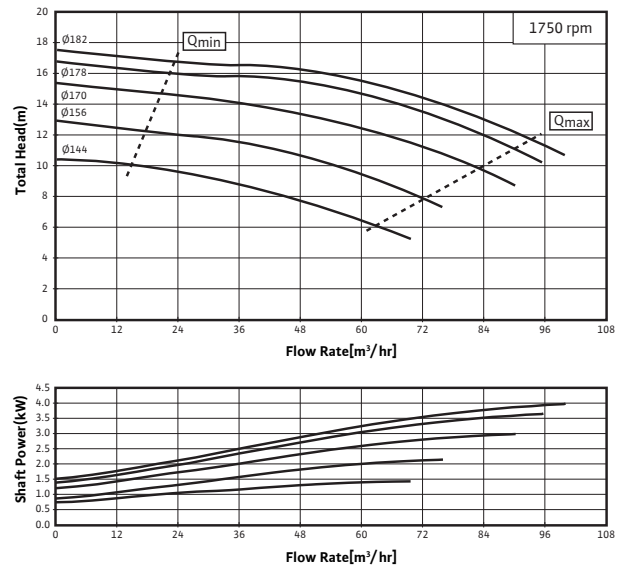
Atmos GIGA-I Series

성능곡선 4pole

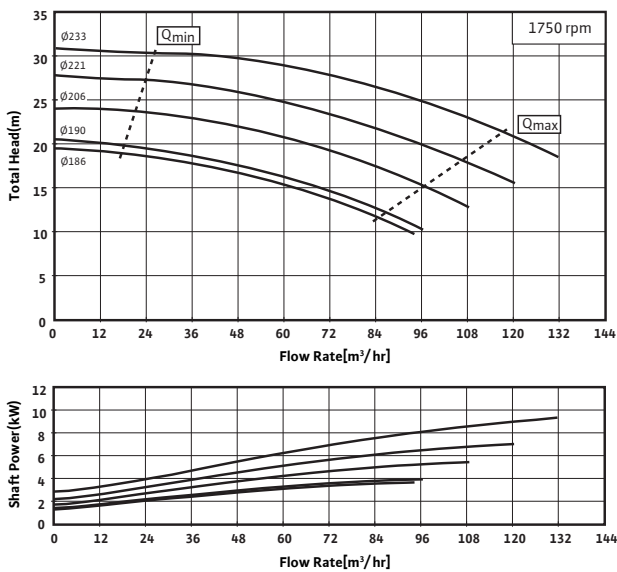
Atmos GIGA-I80/125



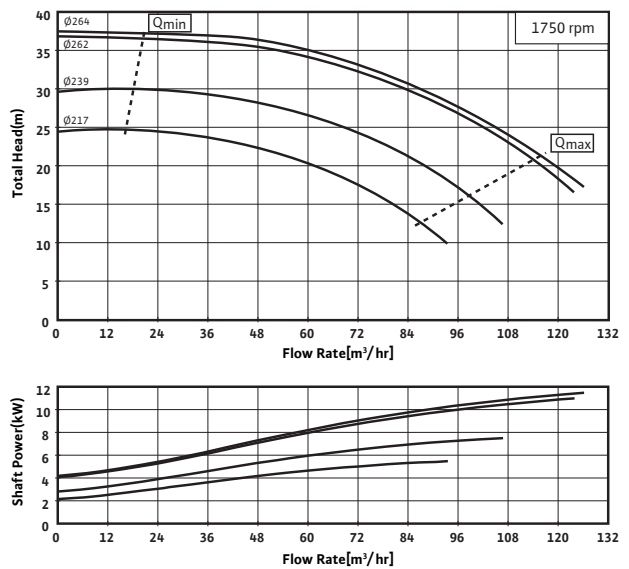
Atmos GIGA-I80/160



Atmos GIGA-I80/200



Atmos GIGA-I80/250



* Acceptance Grade : ISO 9906 : 2012 - 2B

* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

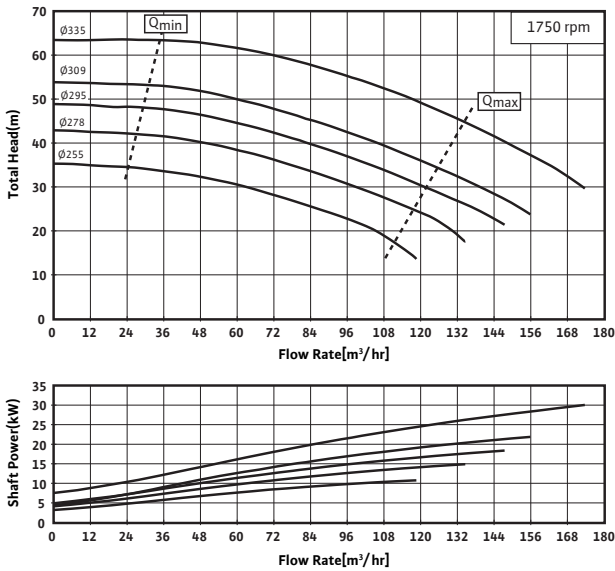
In-Line Pumps

Atmos GIGA-I Series

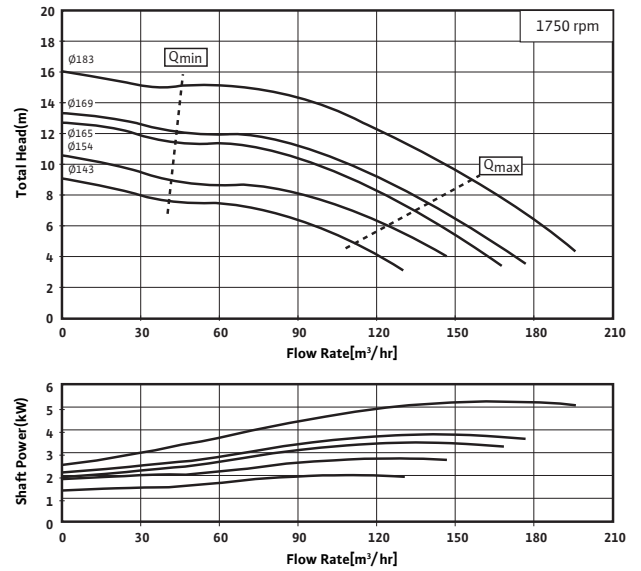


Atmos GIGA-I Series 성능곡선 4pole

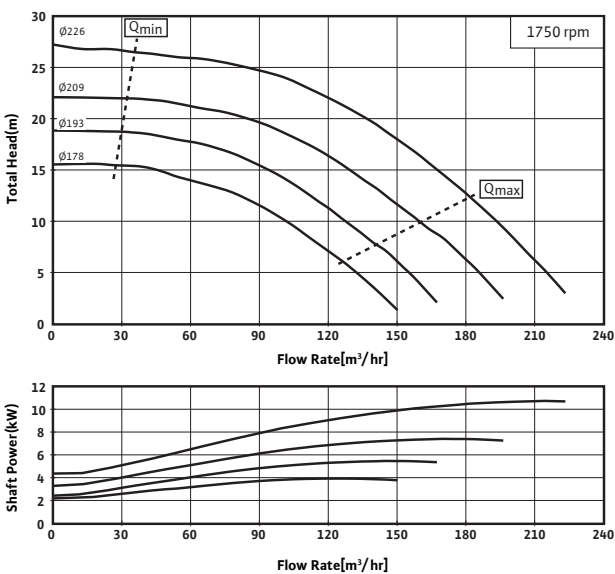
Atmos GIGA-I80/315



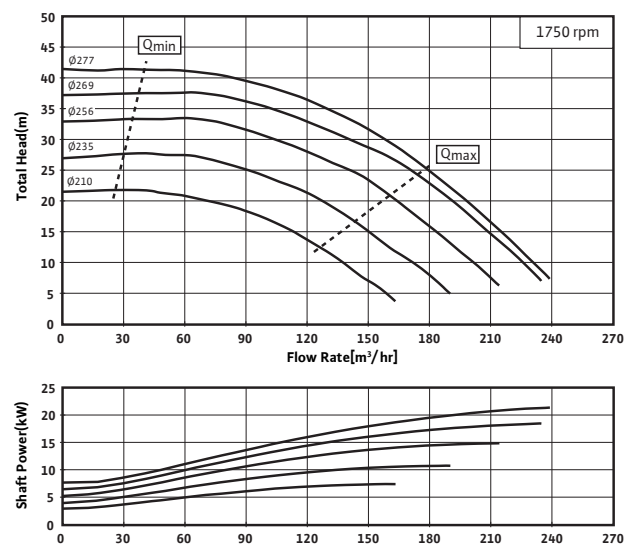
Atmos GIGA-I100/160



Atmos GIGA-I100/200



Atmos GIGA-I100/250



* Acceptance Grade : ISO 9906 : 2012 - 2B

* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

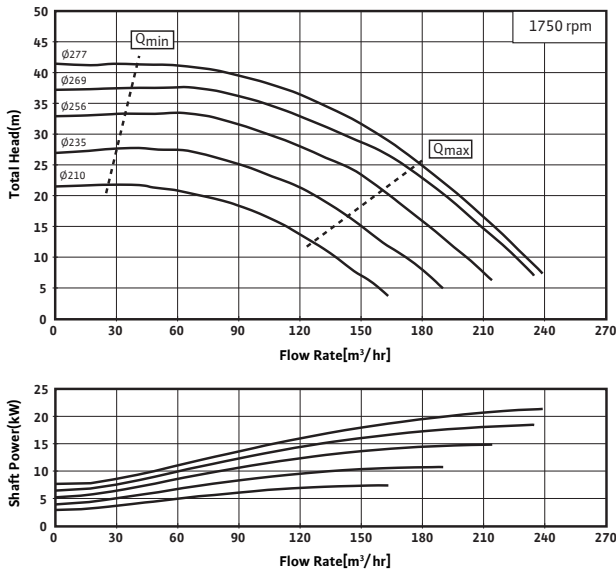
In-Line Pumps

Atmos GIGA-I Series

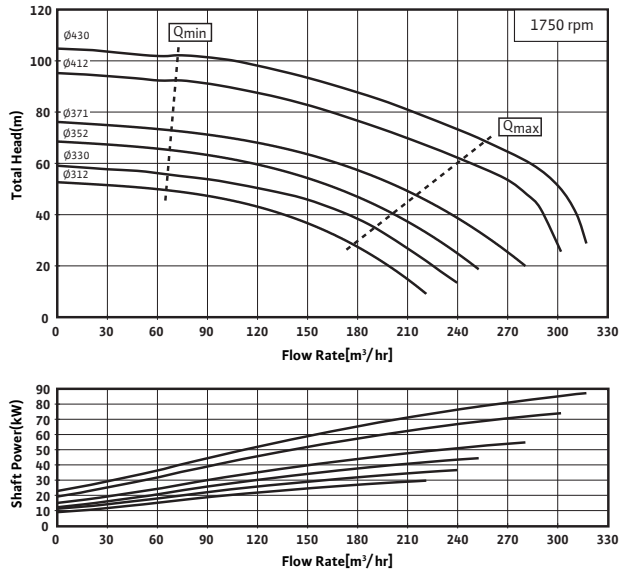
Atmos GIGA-I Series

성능곡선 4pole

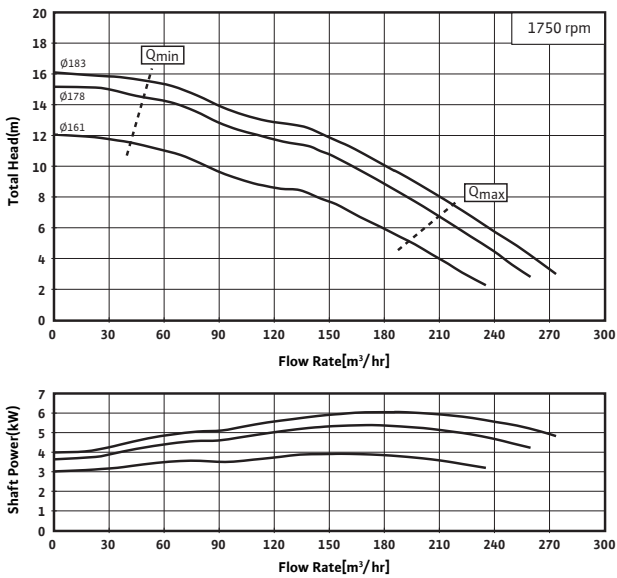
Atmos GIGA-I100/315



Atmos GIGA-I100/400



Atmos GIGA-I125/160



* Acceptance Grade : ISO 9906 : 2012 - 2B

* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

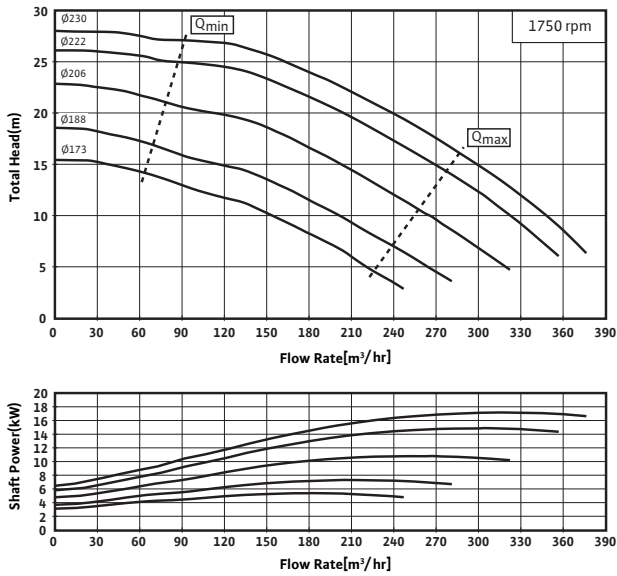
In-Line Pumps

Atmos GIGA-I Series

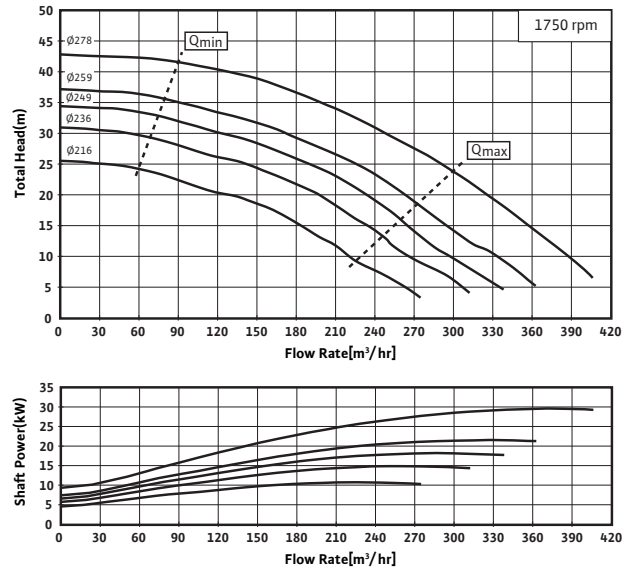


Atmos GIGA-I Series 성능곡선 4pole

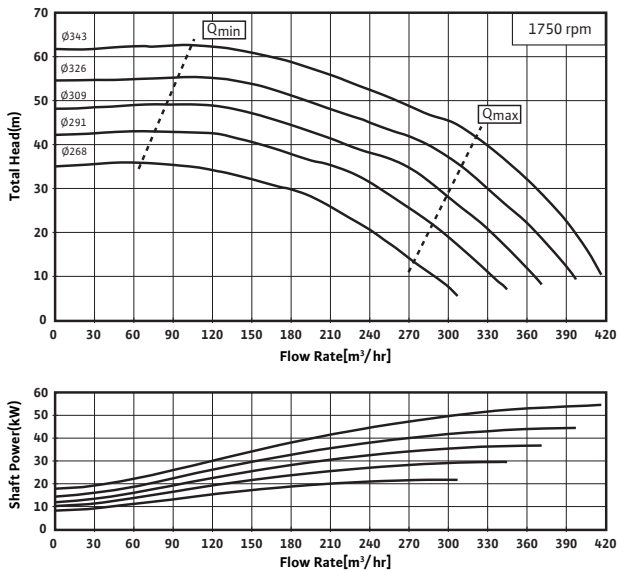
Atmos GIGA-I125/200



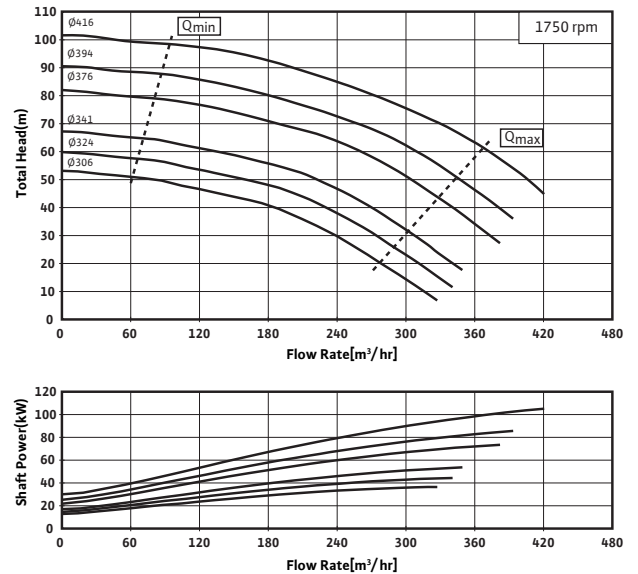
Atmos GIGA-I125/250



Atmos GIGA-I125/315



Atmos GIGA-I125/400



* Acceptance Grade : ISO 9906 : 2012 - 2B

* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

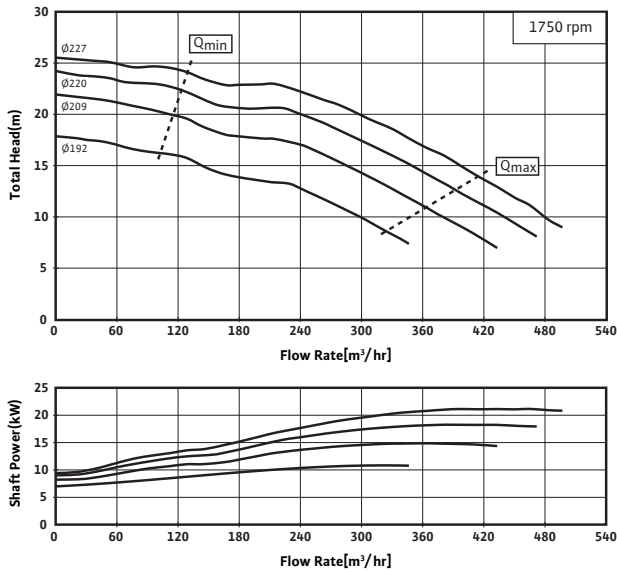
In-Line Pumps

Atmos GIGA-I Series

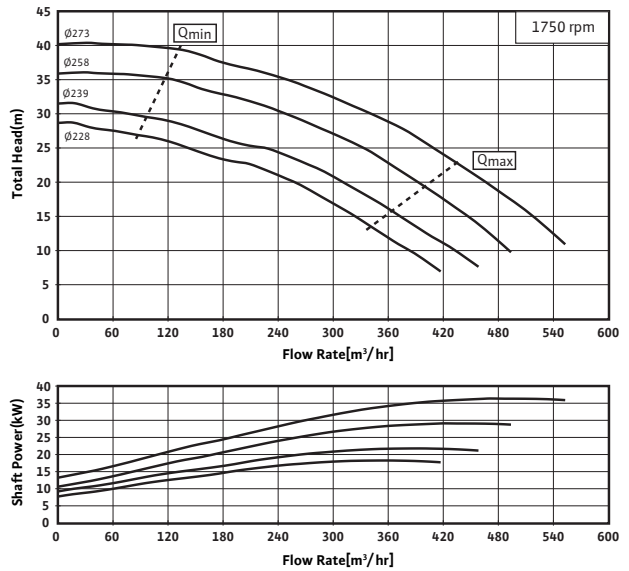
Atmos GIGA-I Series

성능곡선 4pole

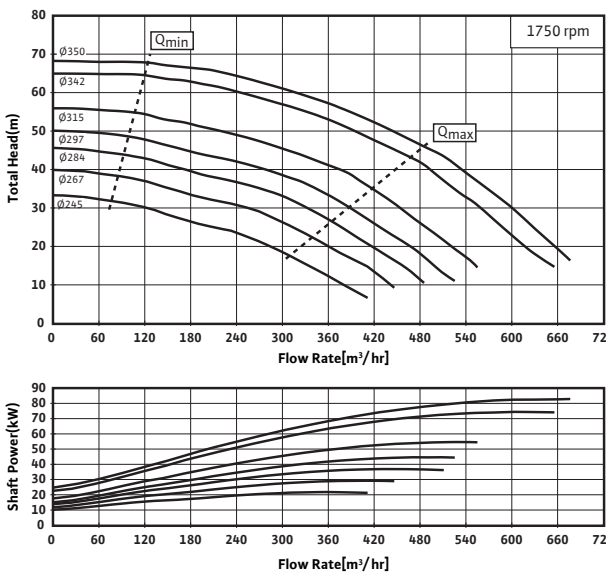
Atmos GIGA-I150/200



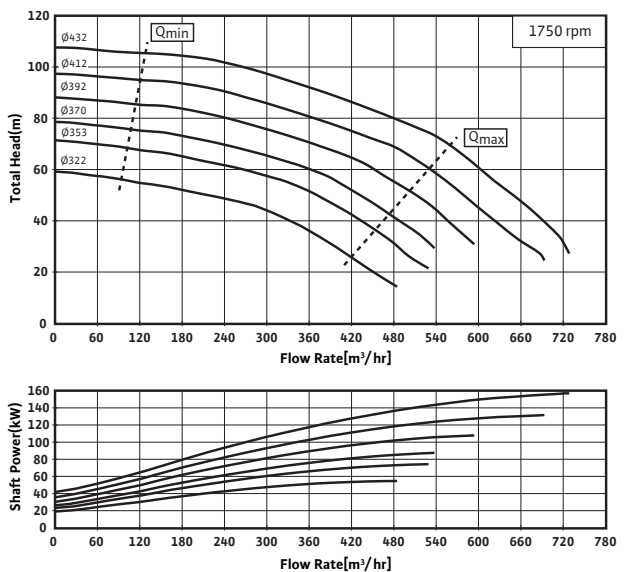
Atmos GIGA-I150/250



Atmos GIGA-I150/315



Atmos GIGA-I150/400



* Acceptance Grade : ISO 9906 : 2012 - 2B

* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

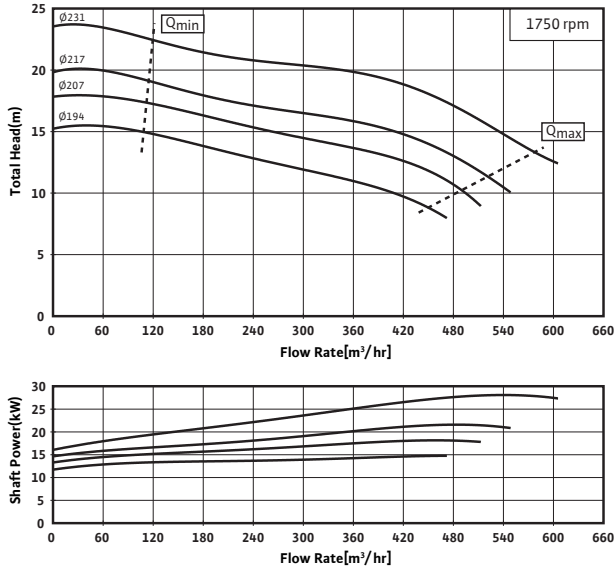
In-Line Pumps

Atmos GIGA-I Series

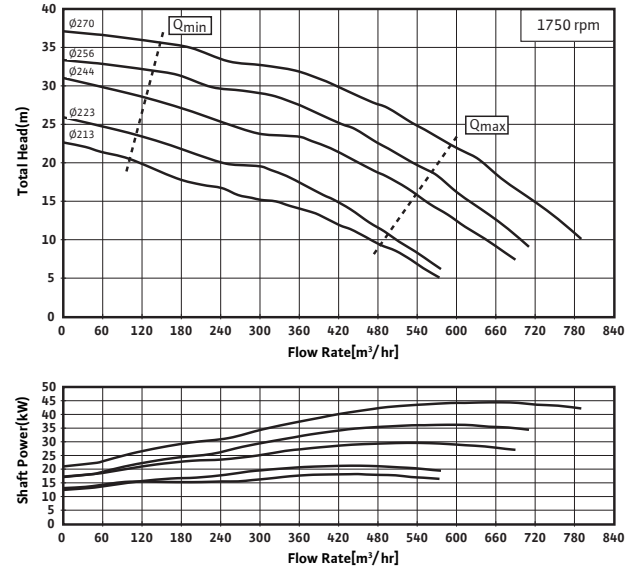


Atmos GIGA-I Series 성능곡선 4pole

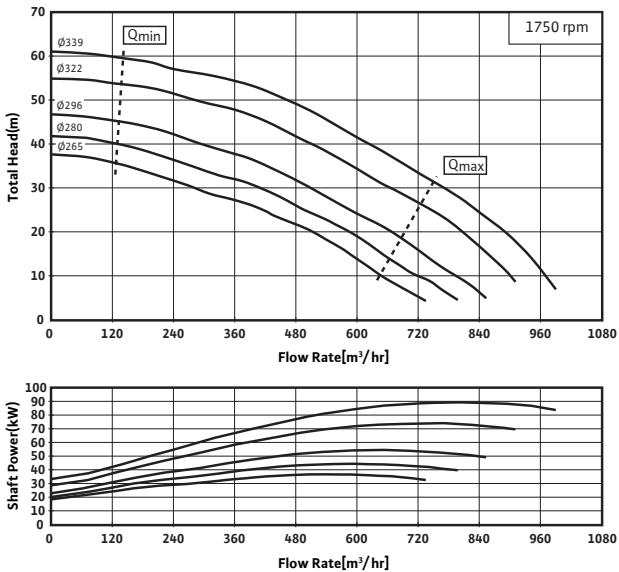
Atmos GIGA-I200/200



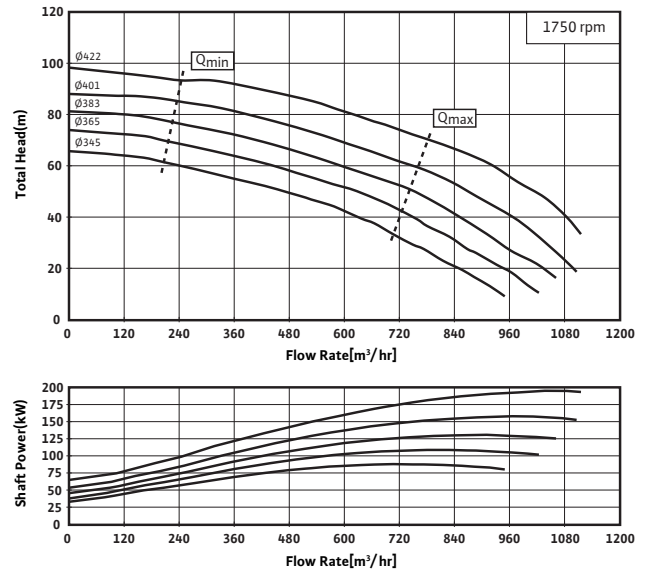
Atmos GIGA-I200/250



Atmos GIGA-I200/315



Atmos GIGA-I200/400



* Acceptance Grade : ISO 9906 : 2012 - 2B

* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

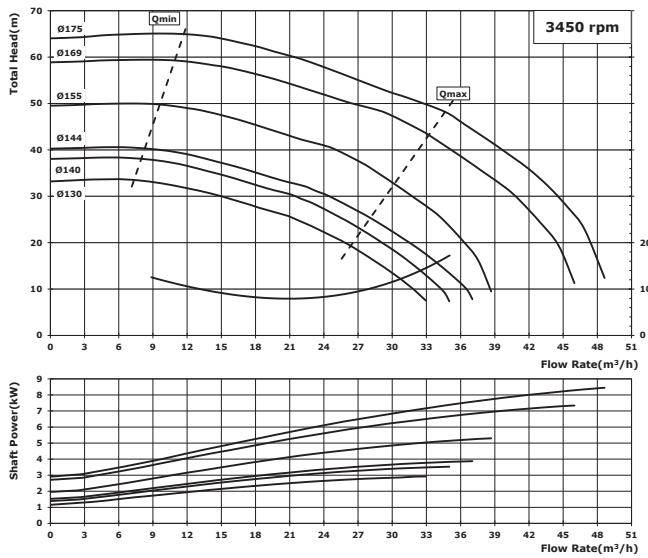
In-Line Pumps

Atmos GIGA-I Series

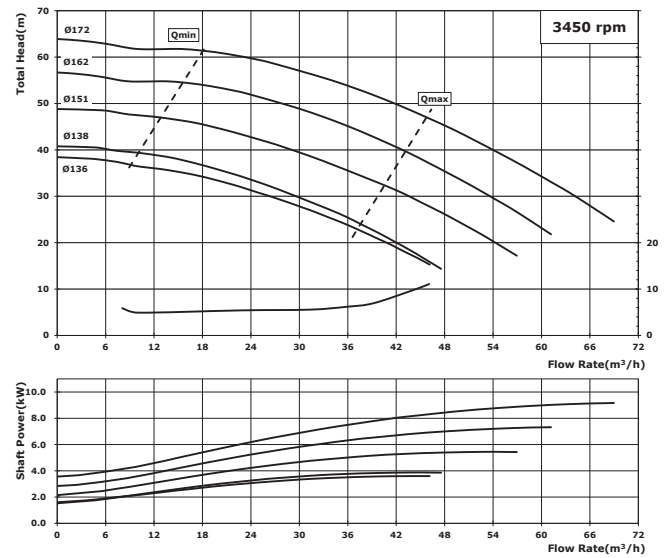
Atmos GIGA-I Series

성능곡선 2pole

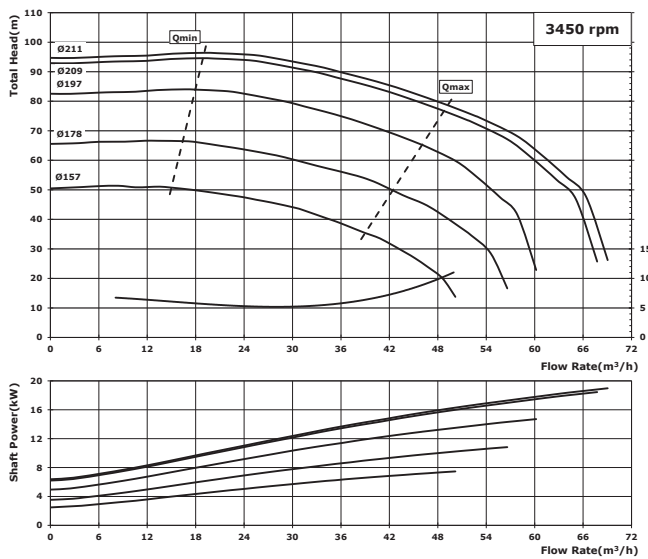
Atmos GIGA-I32/160



Atmos GIGA-I40/160



Atmos GIGA-I40/200

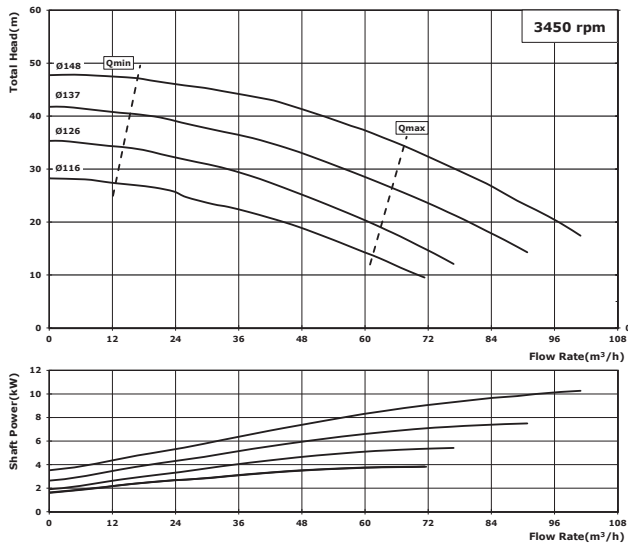


* Acceptance Grade : ISO 9906 : 2012 - 2B

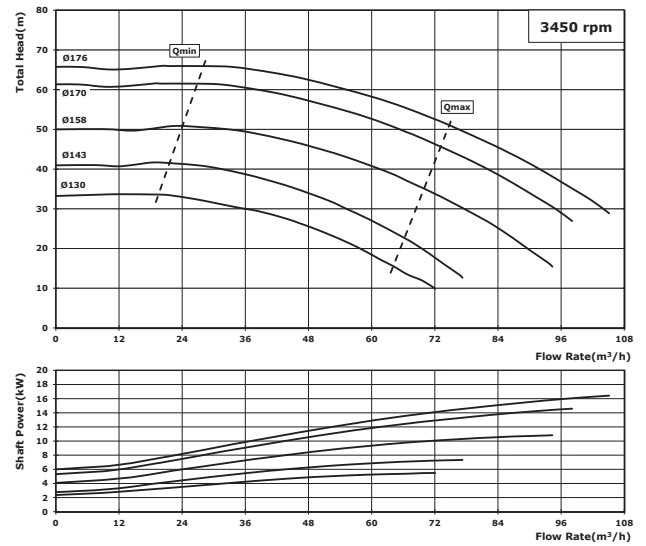
* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

Atmos GIGA-I Series 성능곡선 2pole

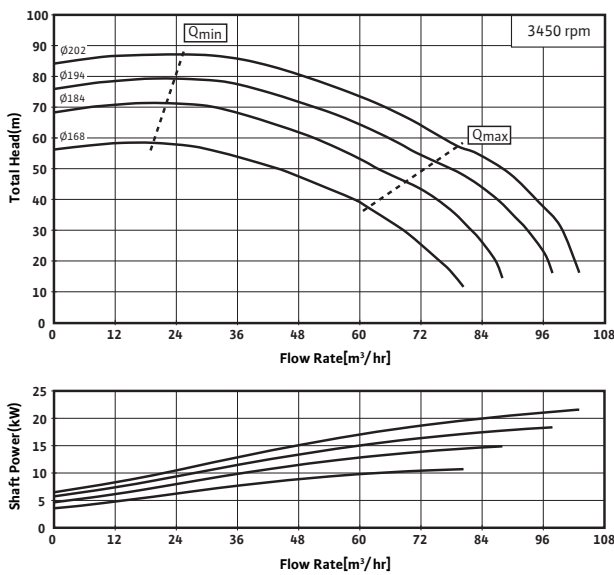
Atmos GIGA-I50/125



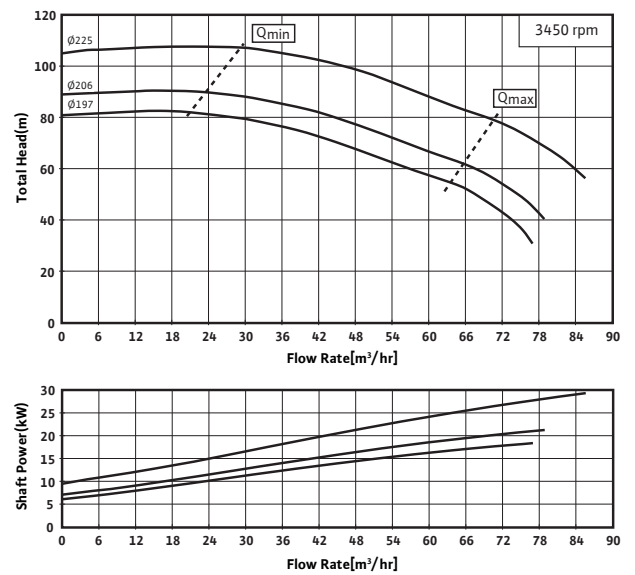
Atmos GIGA-I50/160



Atmos GIGA-I50/200



Atmos GIGA-I50/250



※ Acceptance Grade : ISO 9906 : 2012 - 2B
 ※ 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

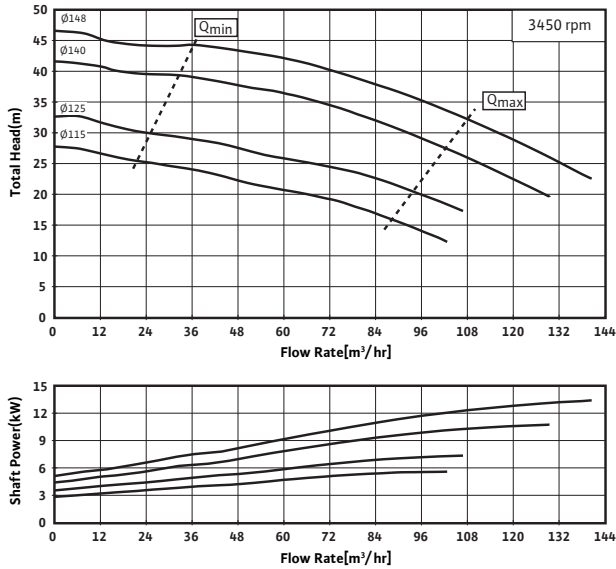
In-Line Pumps

Atmos GIGA-I Series

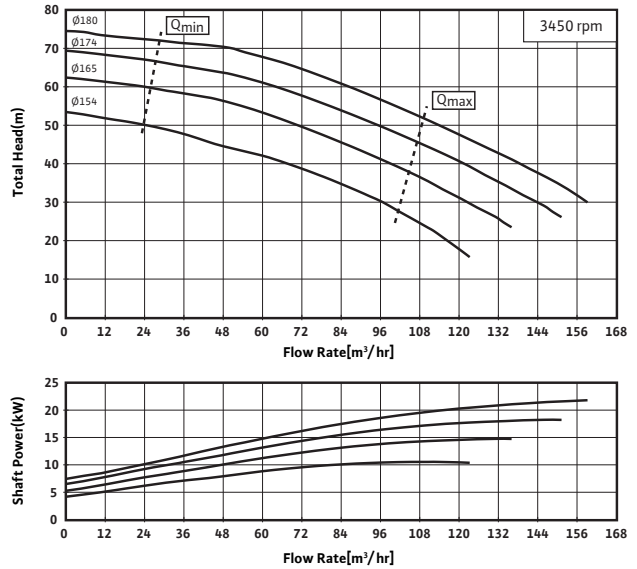
Atmos GIGA-I Series

성능곡선 2pole

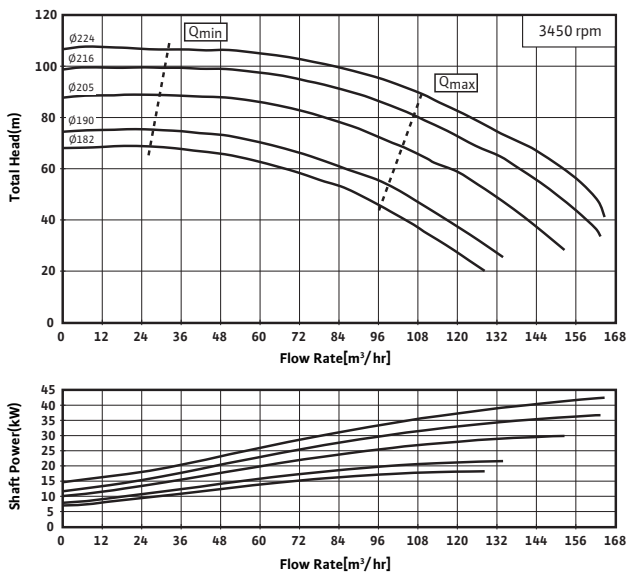
Atmos GIGA-I65/125



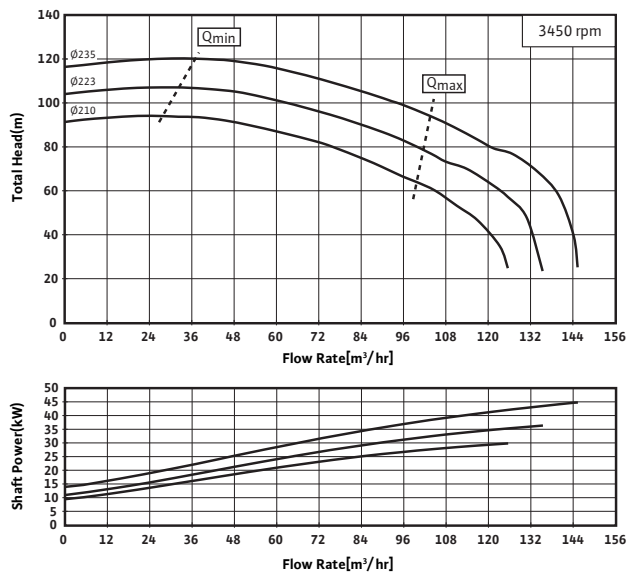
Atmos GIGA-I65/160



Atmos GIGA-I65/200



Atmos GIGA-I65/250

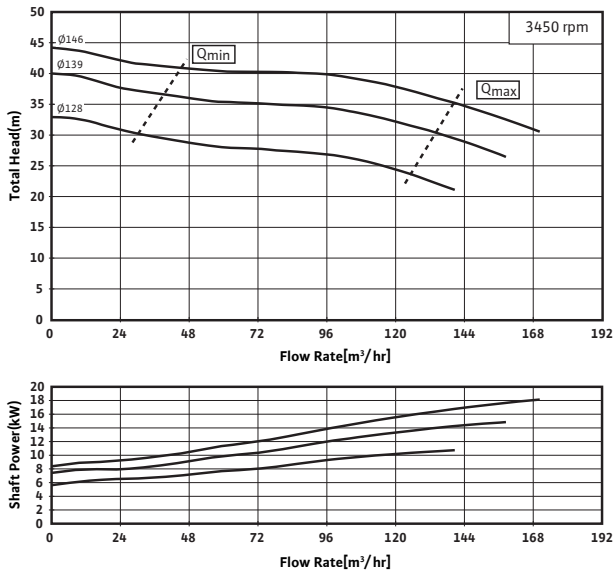


* Acceptance Grade : ISO 9906 : 2012 - 2B

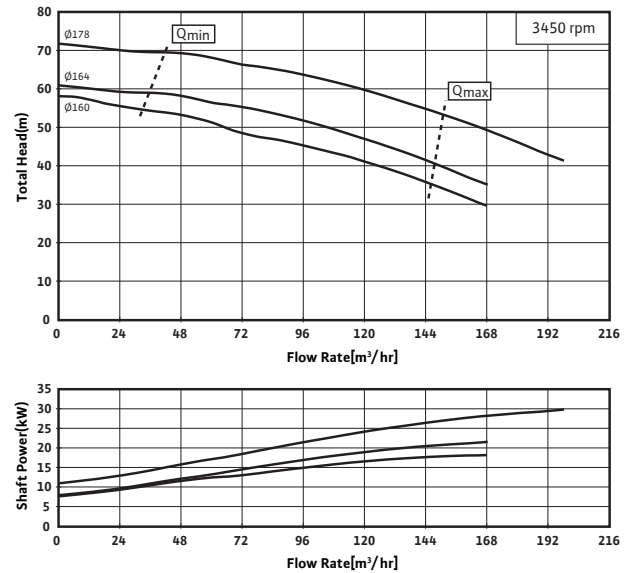
* 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

Atmos GIGA-I Series 성능곡선 2pole

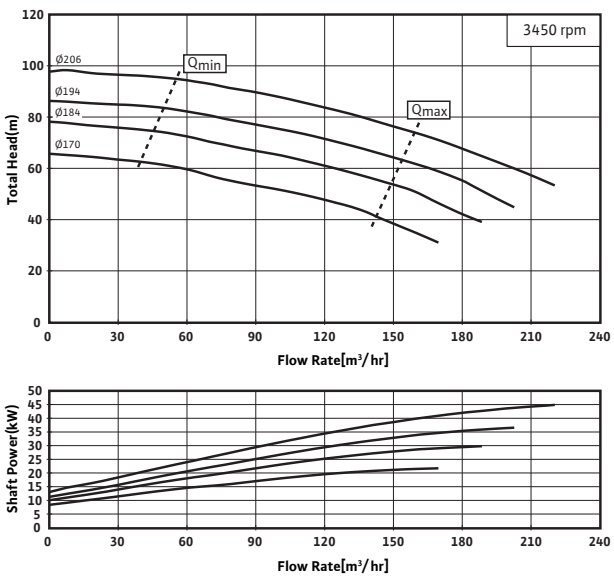
Atmos GIGA-I80/125



Atmos GIGA-I80/160



Atmos GIGA-I80/200



※ Acceptance Grade : ISO 9906 : 2012 - 2B
 ※ 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

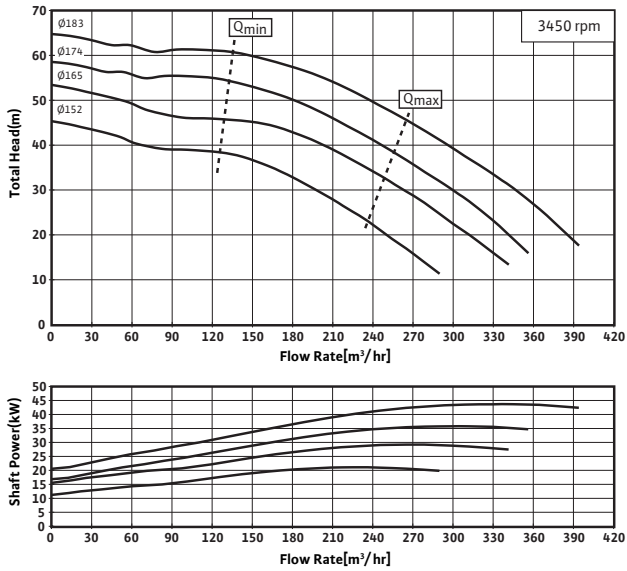
In-Line Pumps

Atmos GIGA-I Series

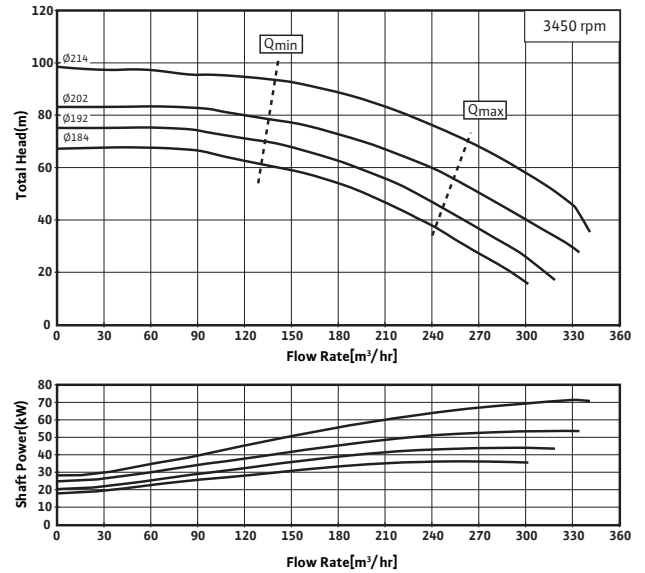
Atmos GIGA-I Series

성능곡선 2pole

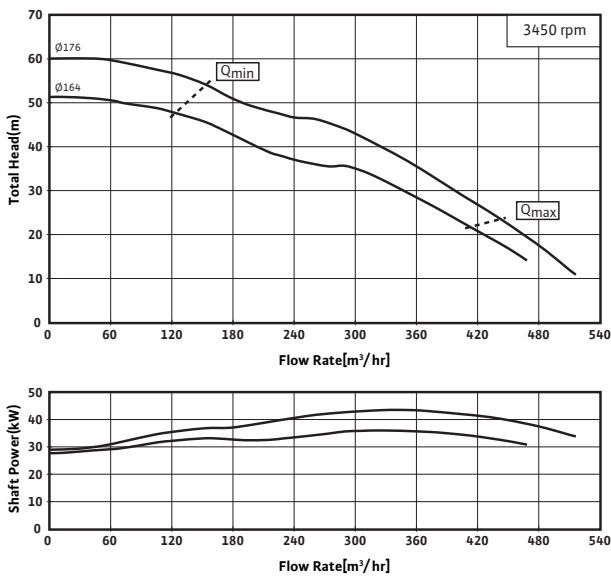
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Atmos GIGA-I100/200



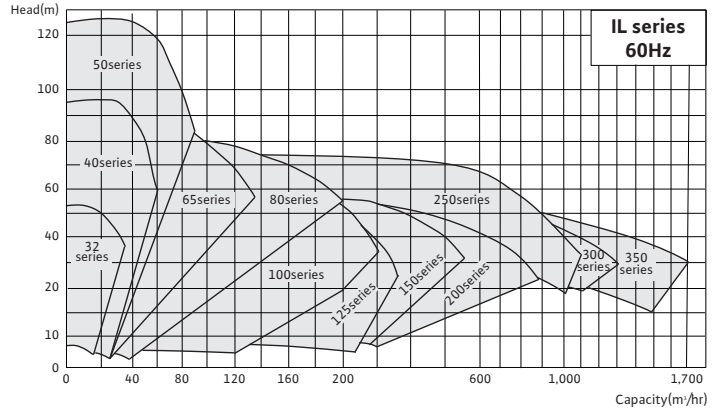
Atmos GIGA-I125/160



※ Acceptance Grade : ISO 9906 : 2012 - 2B

※ 상기 성능은 가압 3.8bar 조건에서의 성능으로 다른 흡입 조건에서는 상기와 다를 수 있음.

IL Series 제품 소개



모델명

예) IL 250/425-110/4

- IL : 고압 인라인 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

- 사용 액체
VDI 2035에 준하는 온수, 냉수, 냉각용수, 열교환 용수, 클리콜 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
- 최대허용압력
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 카트리리지 실 채용)
- 플랜지
PN 16 (EN 1092-2)
1/8" 게이지 태핑

- 모터
IEC 표준 모터(효율 관리 기자재 운영 규정 만족)
3상, IP55, F종
전원사양 : 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
(IL250은 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 펌프케이싱
외부 Rib 보강구조로 고압에서도 높은 안전성(대형모델)
- 임펠러
3차원 유동해석을 통한 최적설계
유체의 저항을 최소화 하여 고효율 실현
- 모터 : IEC 표준 모터 적용으로 높은 호환성
- 미캐니컬 실
카트리리지 실로 모터의 분해없이 교환 및 유지보수 가능 (IL 250 Series)
미캐니컬 실 표준 장착

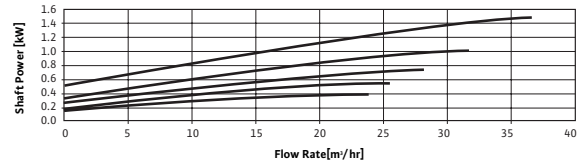
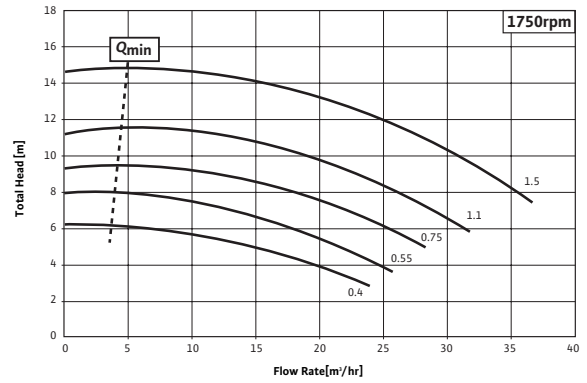
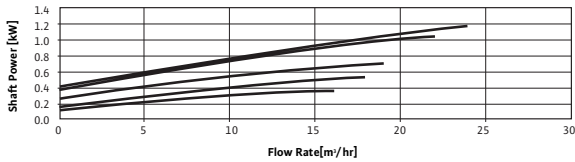
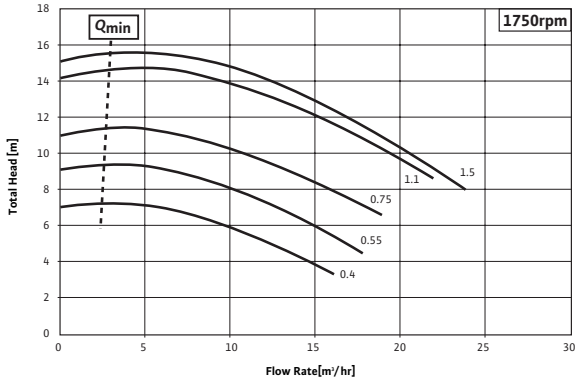
In-Line Pumps

IL Series

IL Series 성능곡선 4pole

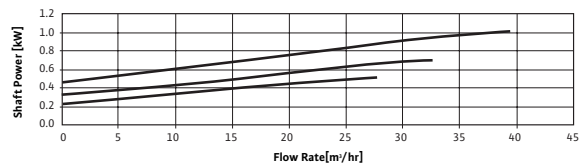
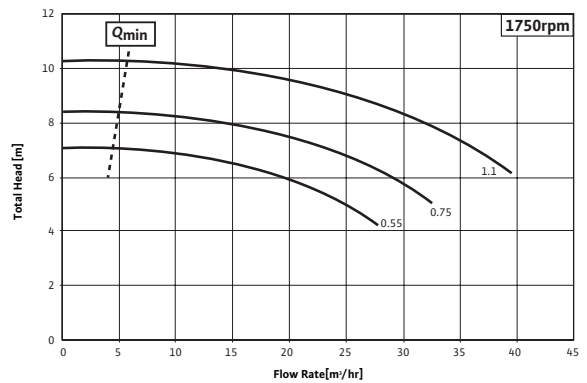
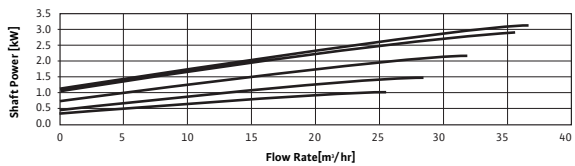
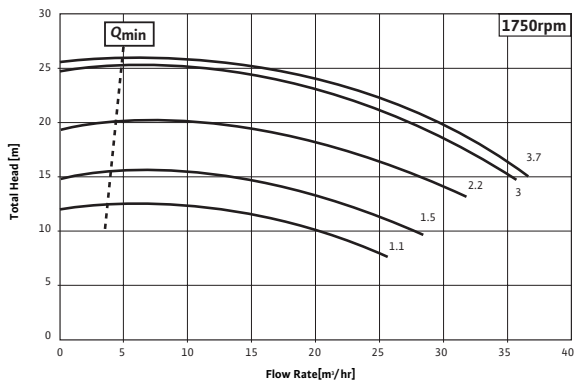
IL 32/170 Series

IL 40/170 Series



IL 40/220 Series

IL 50/140 Series



In-Line Pumps

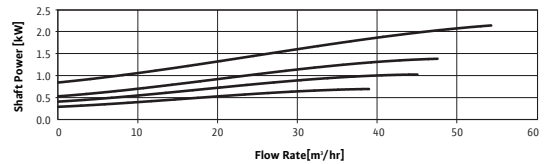
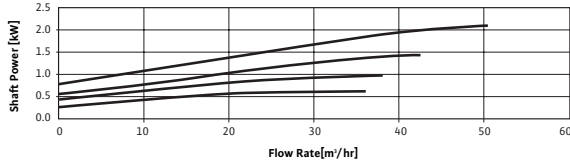
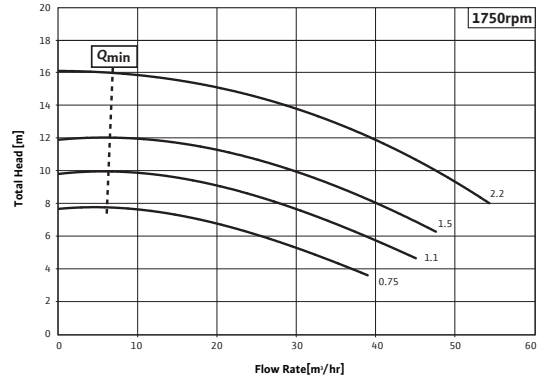
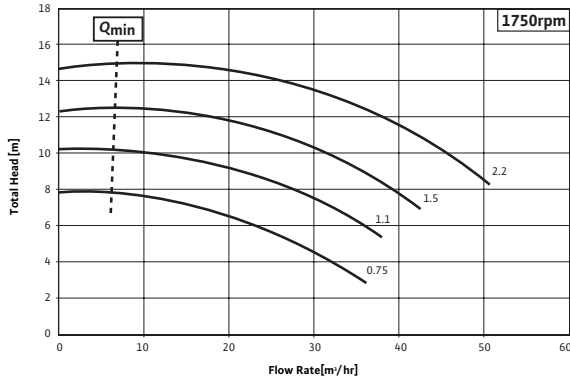
IL Series



IL Series 성능곡선 4pole

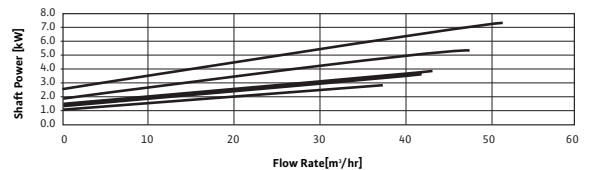
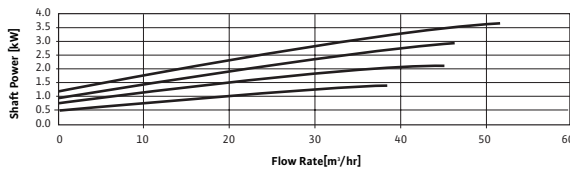
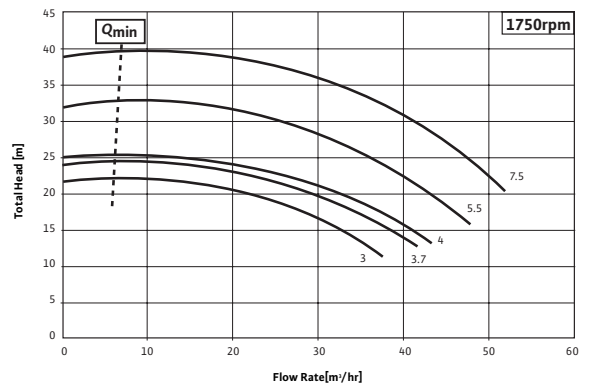
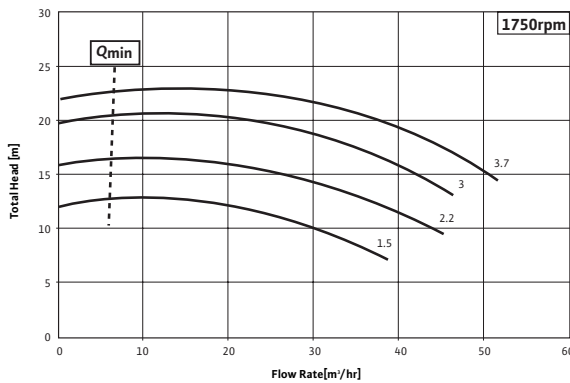
IL 50/170 Series

IL 50/175 Series



IL 50/220 Series

IL 50/270 Series



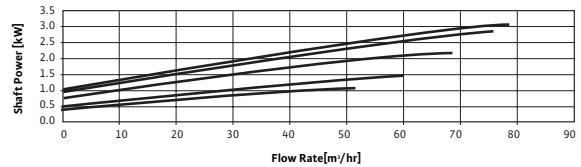
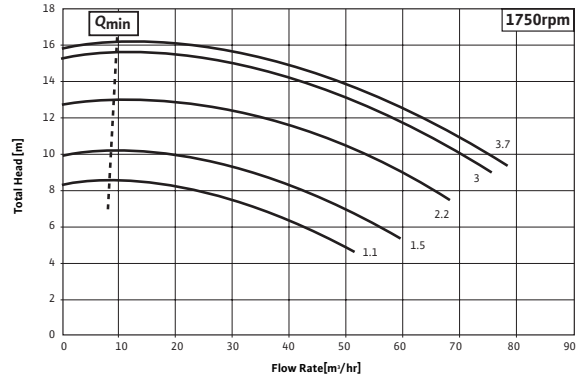
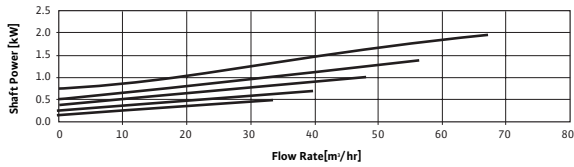
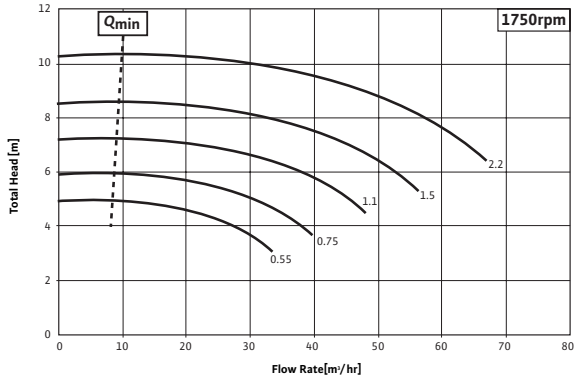
In-Line Pumps

IL Series

IL Series 성능곡선 4pole

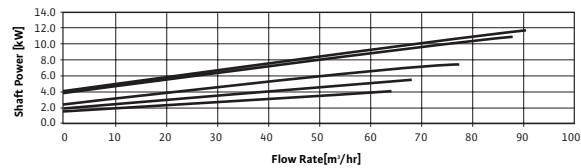
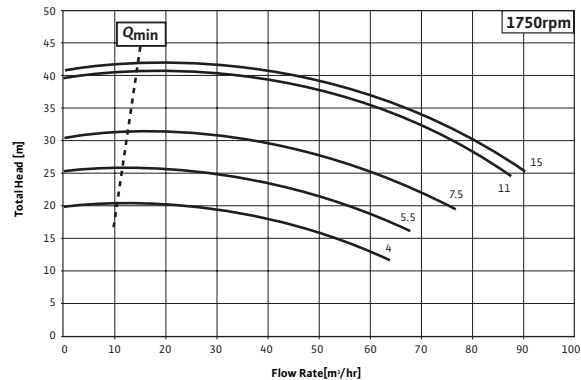
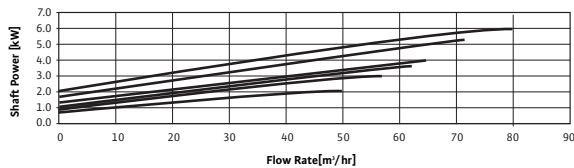
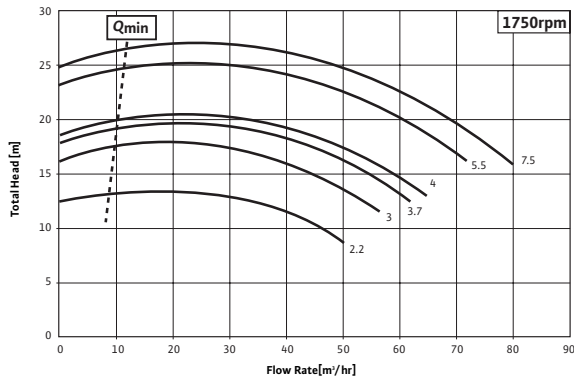
IL 65/140 Series

IL 65/170 Series



IL 65/220 Series

IL 65/270 Series



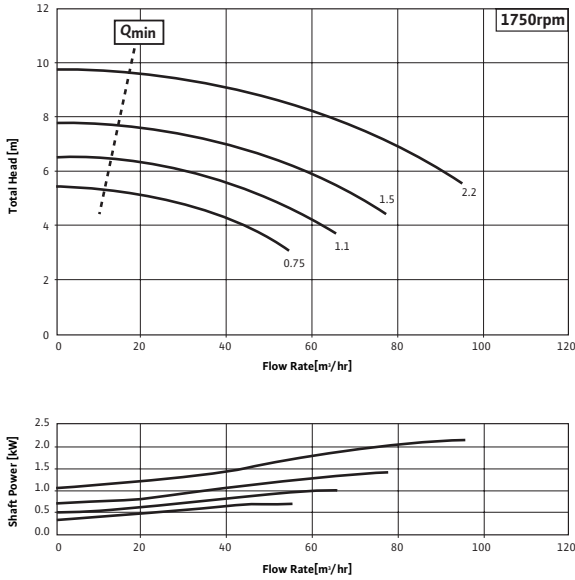
In-Line Pumps

IL Series

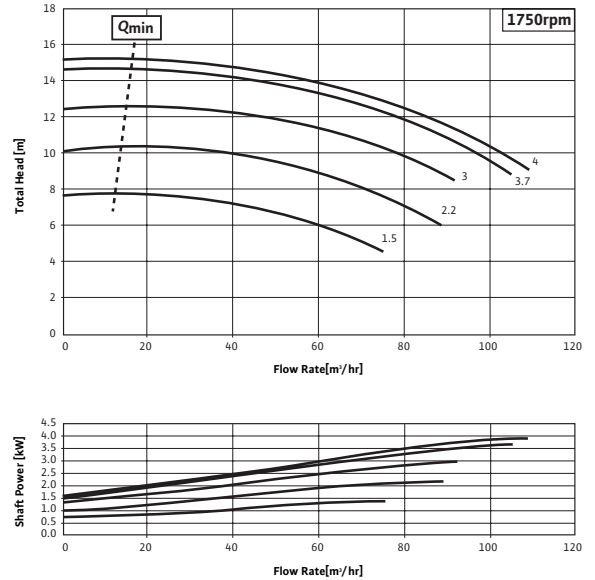


IL Series 성능곡선 4pole

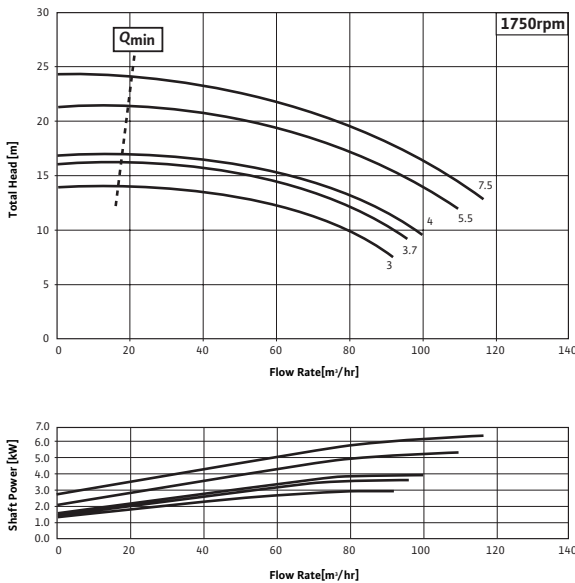
IL 80/140 Series



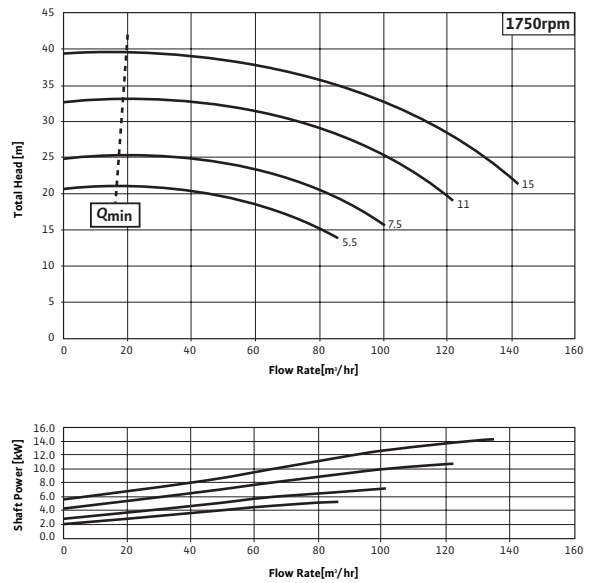
IL 80/170 Series



IL 80/220 Series



IL 80/270 Series



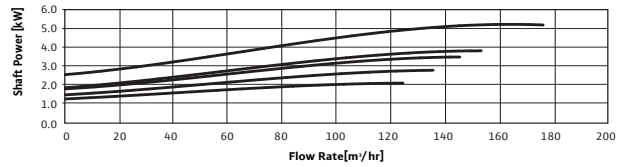
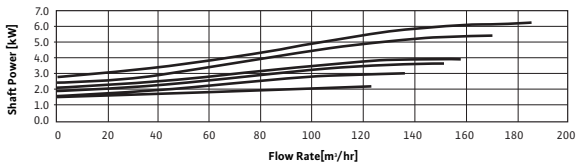
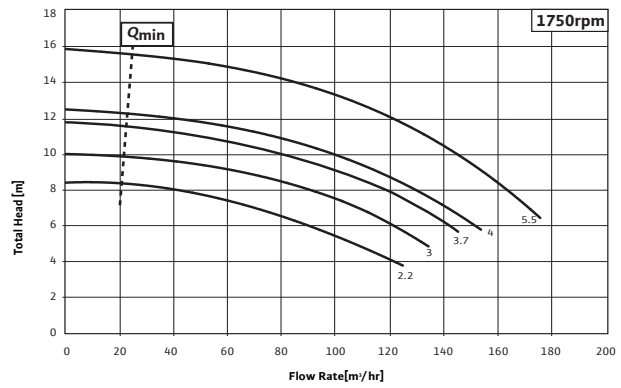
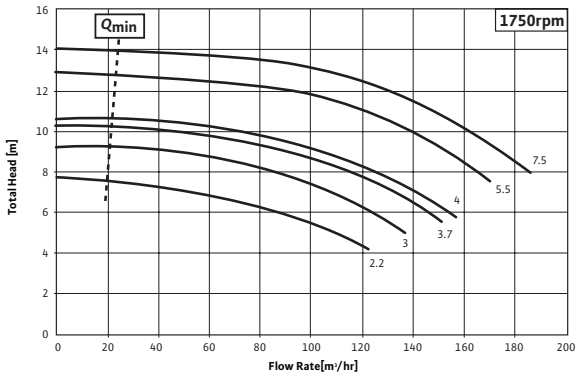
In-Line Pumps

IL Series

IL Series 성능곡선 4pole

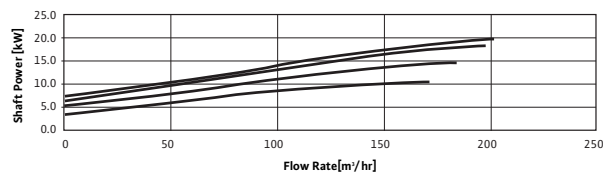
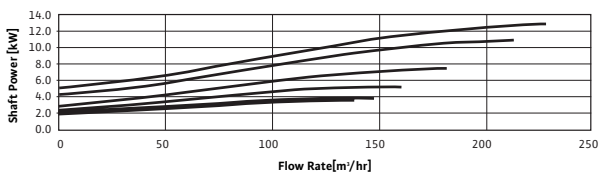
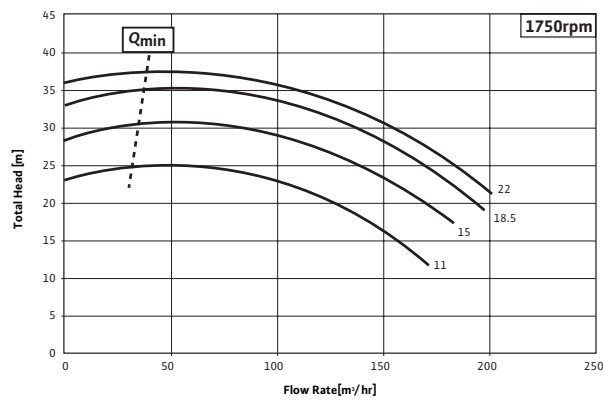
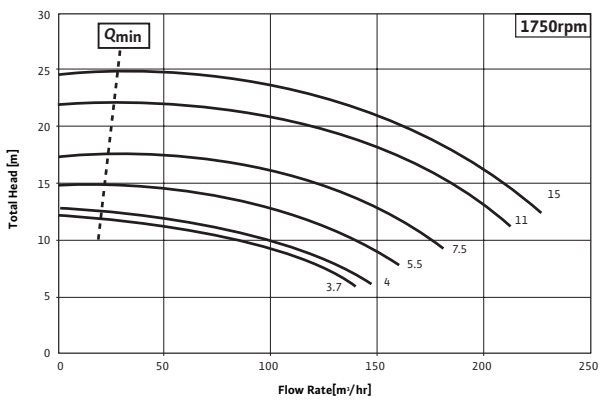
IL 100/170 Series

IL 100/175 Series



IL 100/220 Series

IL 100/270 Series



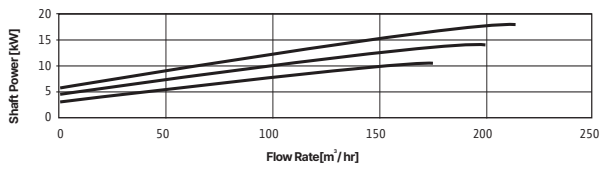
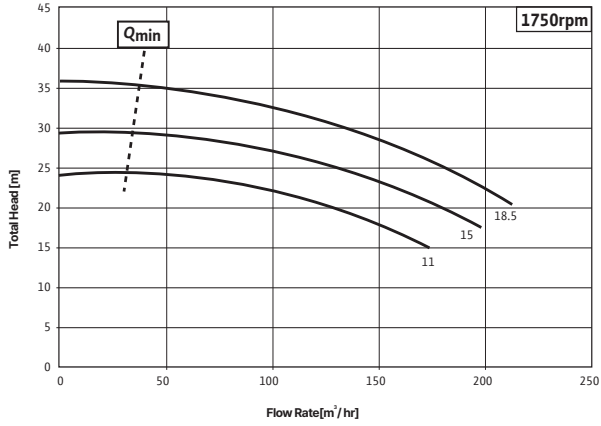
In-Line Pumps

IL Series

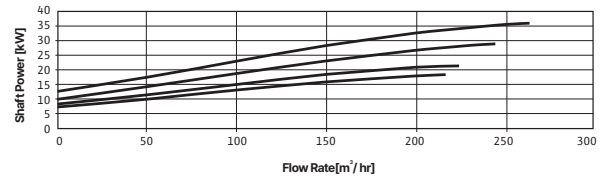
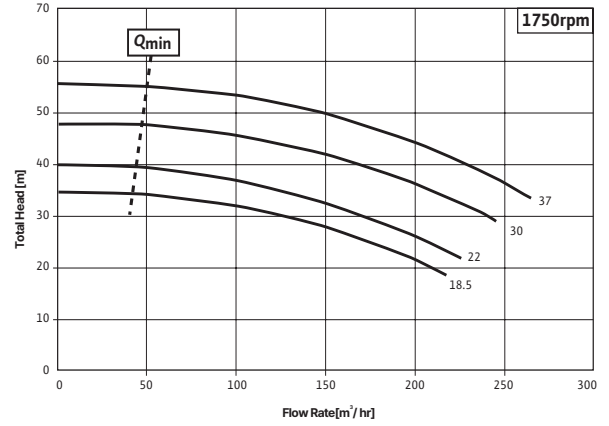


IL Series 성능곡선 4pole

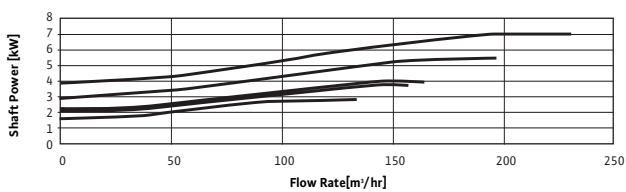
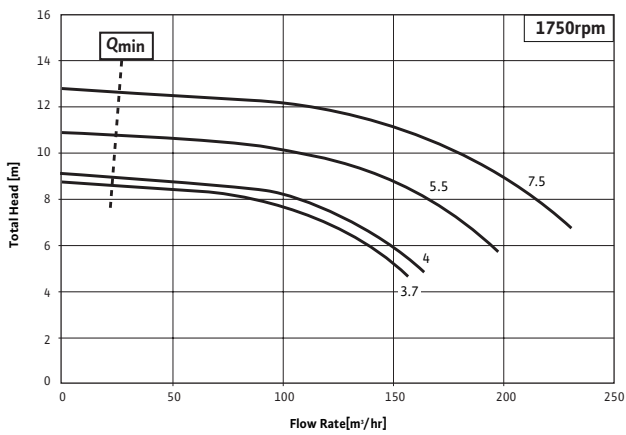
IL 100/275 Series



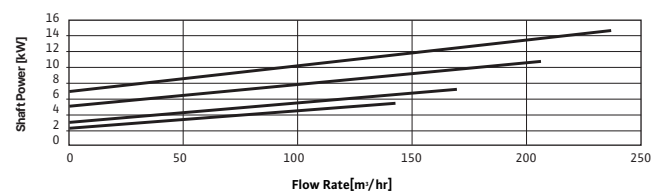
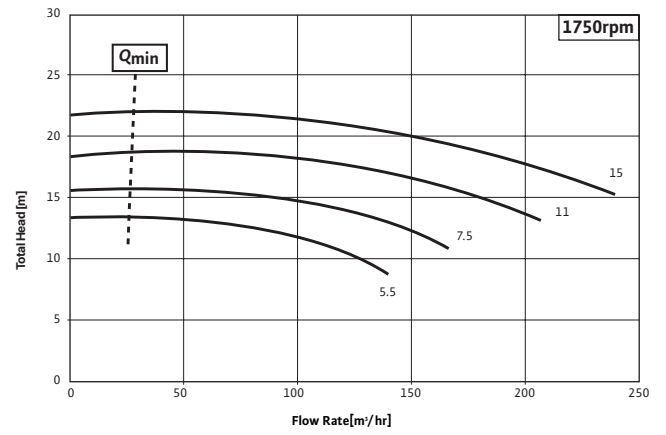
IL 100/345 Series



IL 125/170 Series



IL 125/220 Series

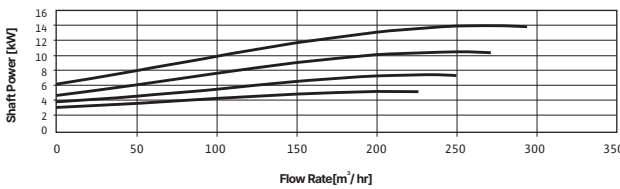
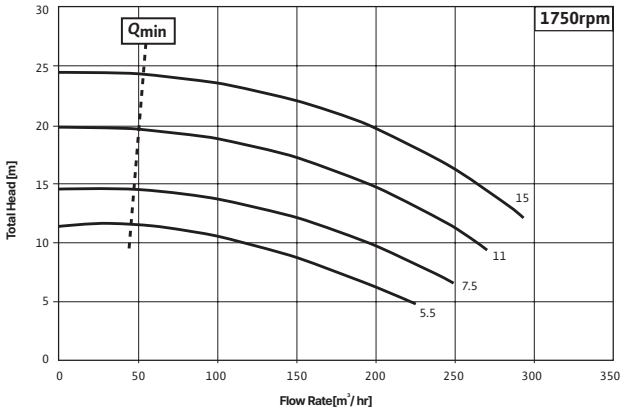


In-Line Pumps

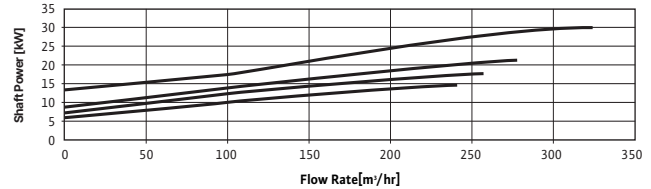
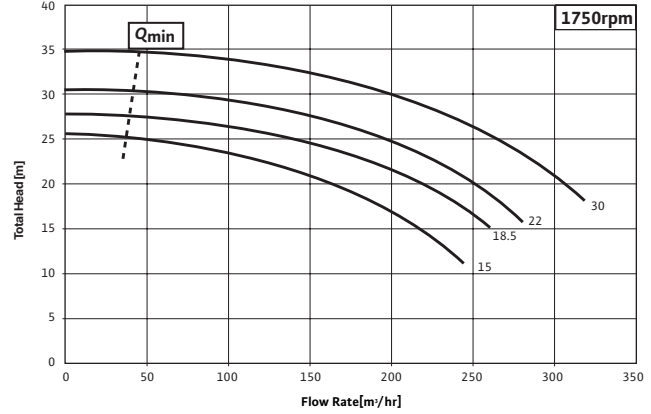
IL Series

IL Series 성능곡선 4pole

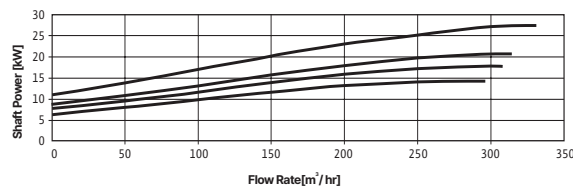
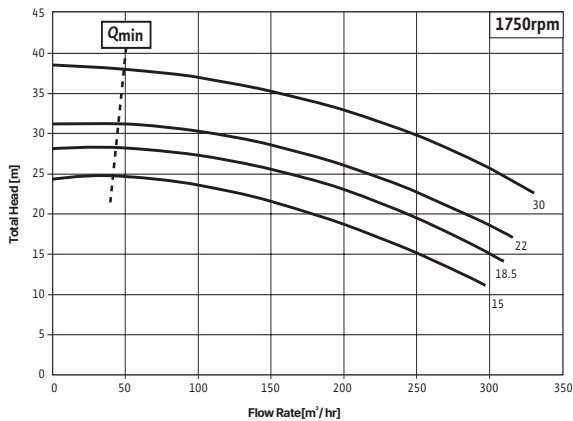
IL 125/225 Series



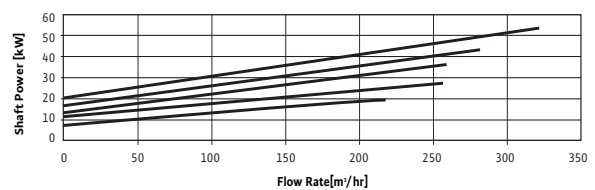
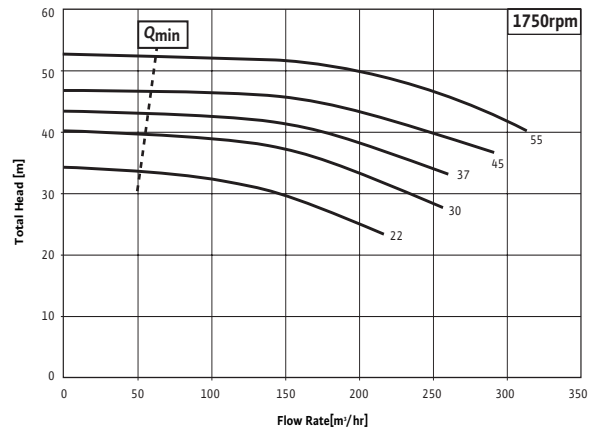
IL 125/270 Series



IL 125/275 Series



IL 125/340 Series



In-Line Pumps

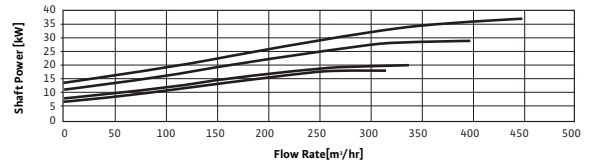
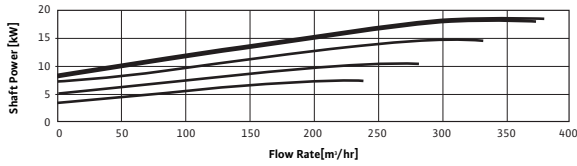
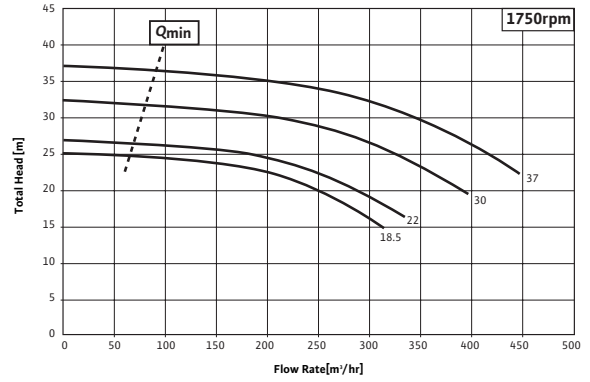
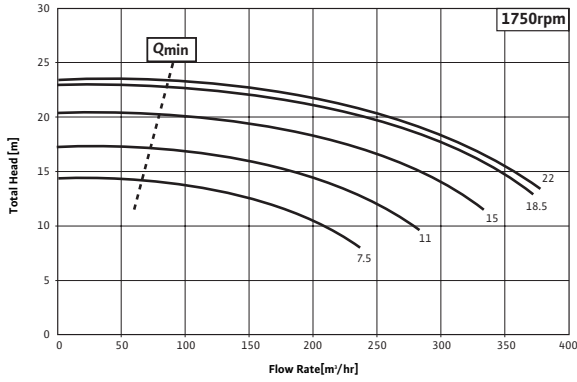
IL Series



IL Series 성능곡선 4pole

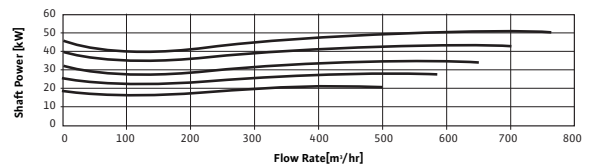
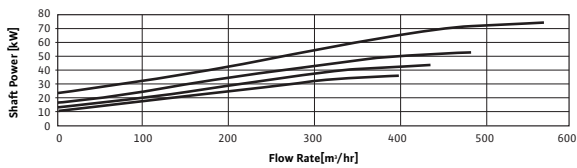
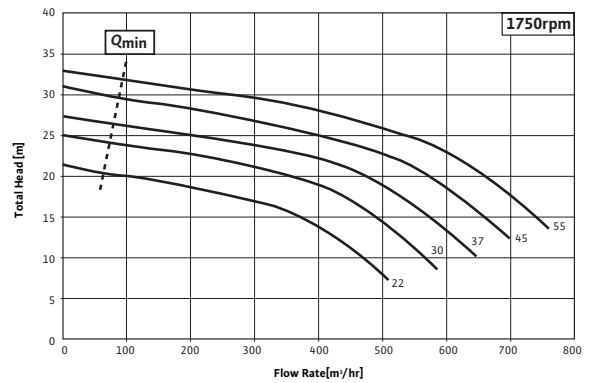
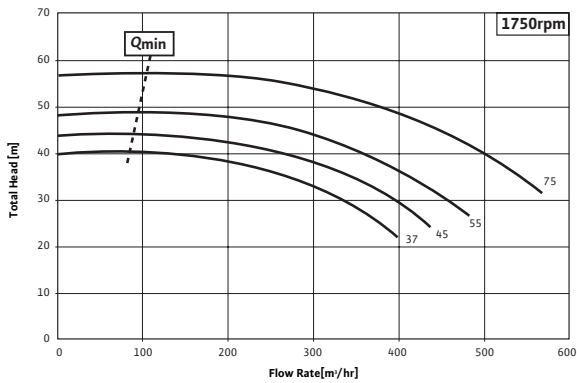
IL 150/225 Series

IL 150/225 Series



IL 150/345 Series

IL 200/270 Series



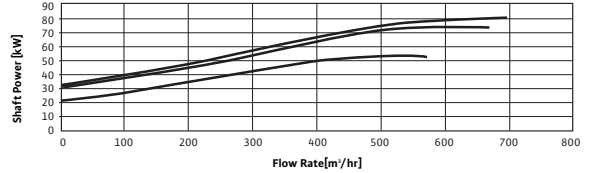
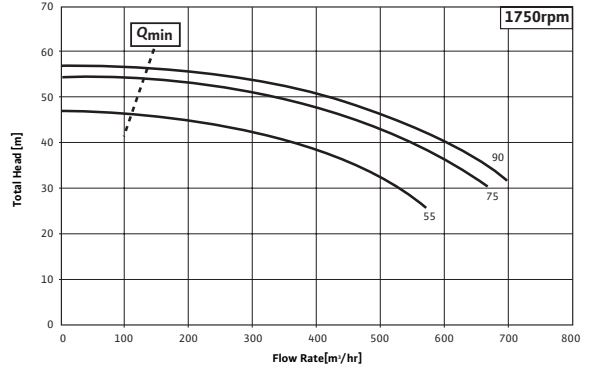
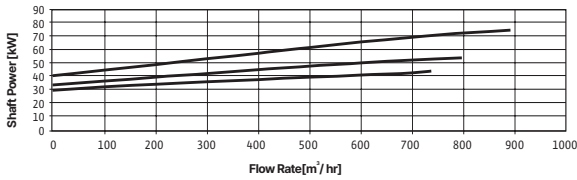
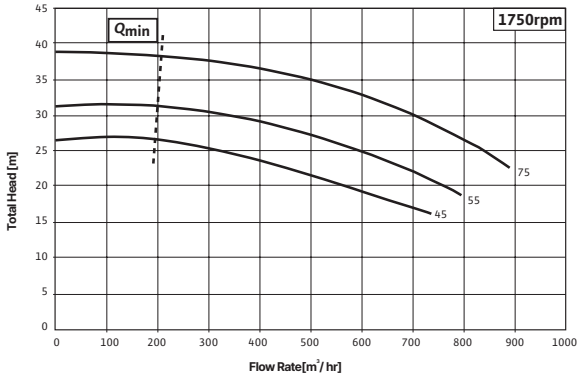
In-Line Pumps

IL Series

IL Series 성능곡선 4pole

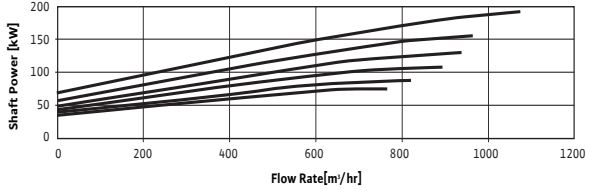
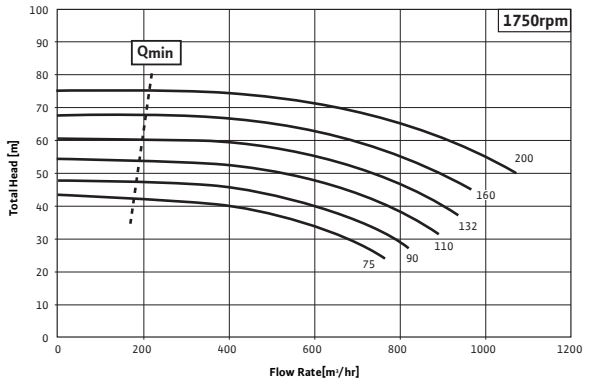
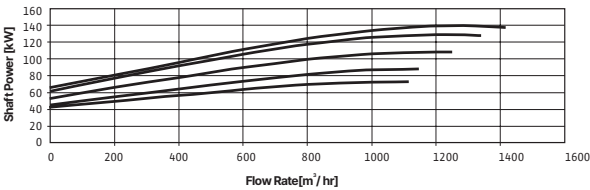
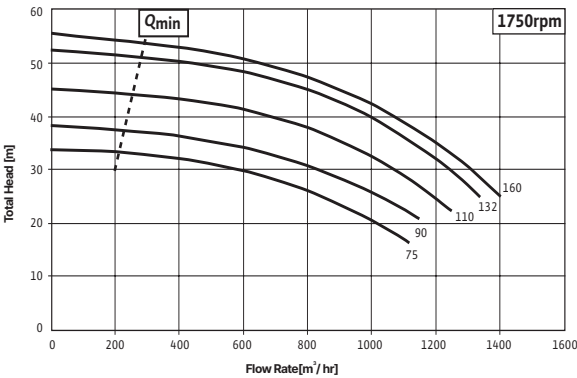
IL 200/275 Series

IL 200/345 Series



IL 250/345 Series

IL 250/425 Series



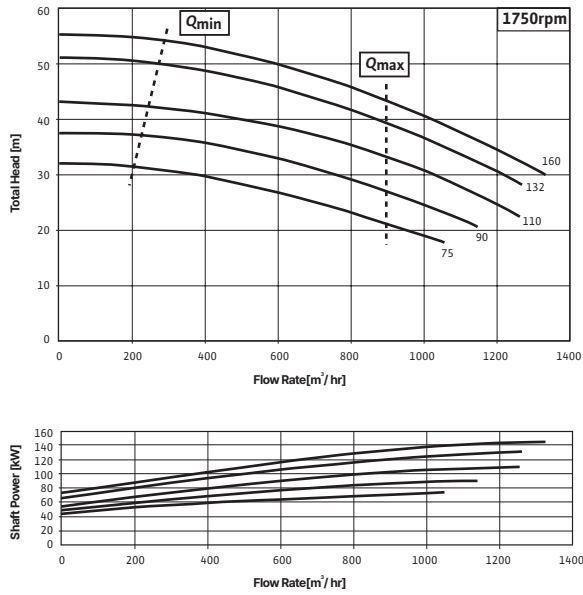
In-Line Pumps

IL Series

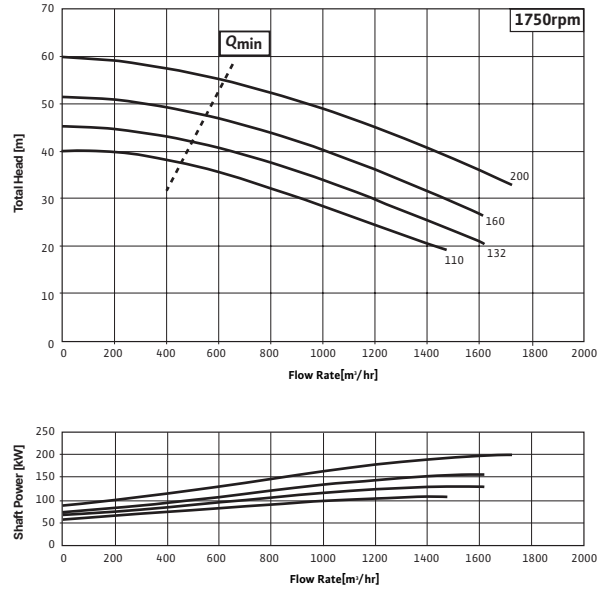


IL Series 성능곡선 2pole

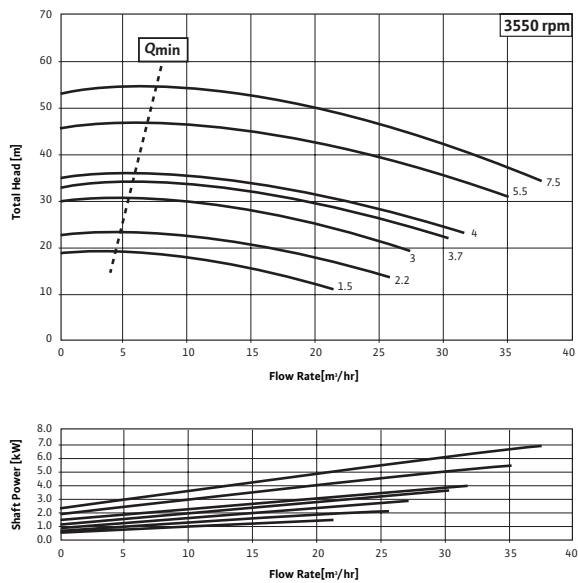
IL 300/340 Series



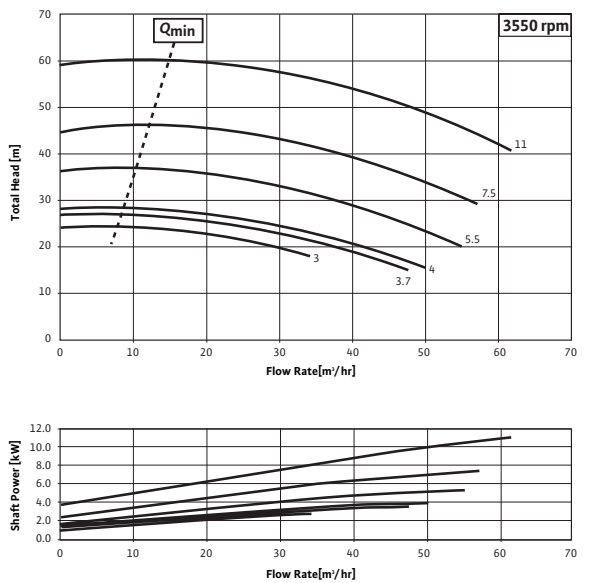
IL 350/355 Series



IL 32/170 Series



IL 40/170 Series

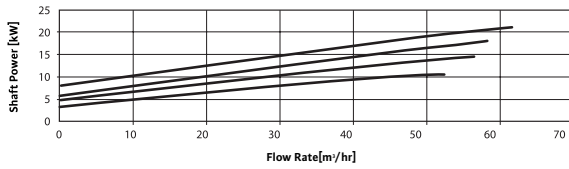
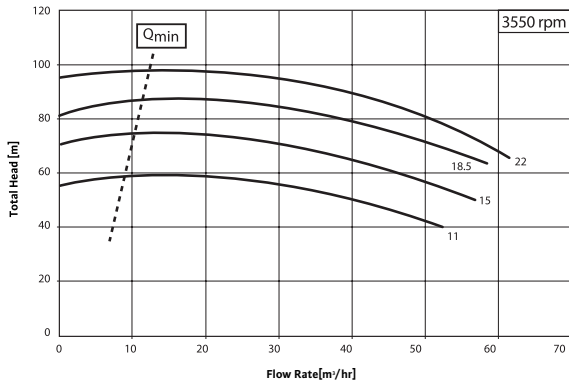


In-Line Pumps

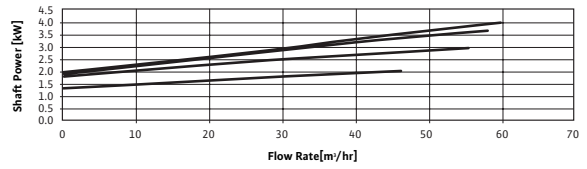
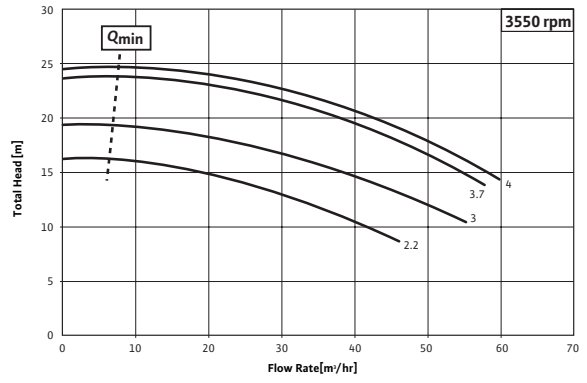
IL Series

IL Series 성능곡선 2pole

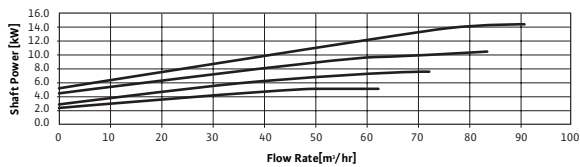
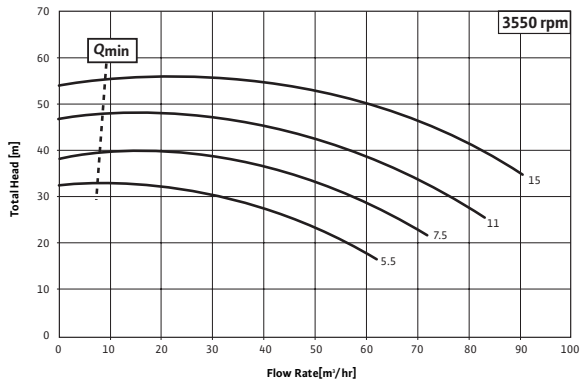
IL 40/220 Series



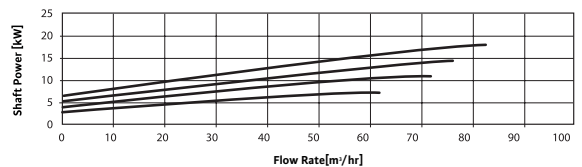
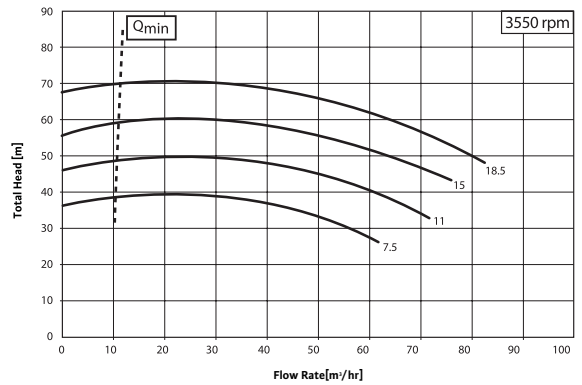
IL 50/140 Series



IL 50/170 Series



IL 50/220 Series



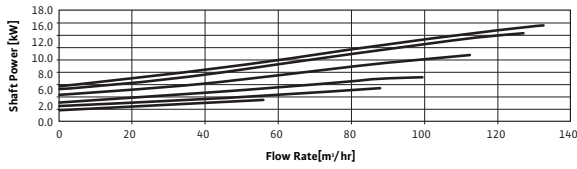
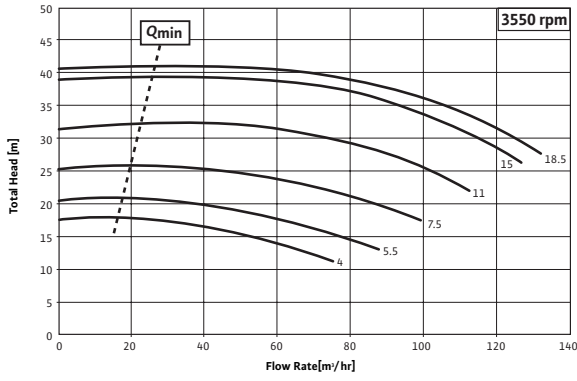
In-Line Pumps

IL Series

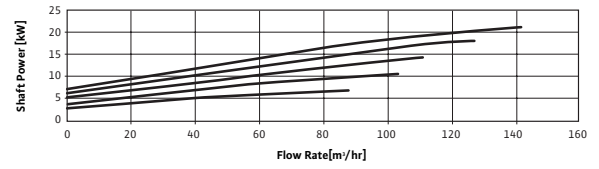
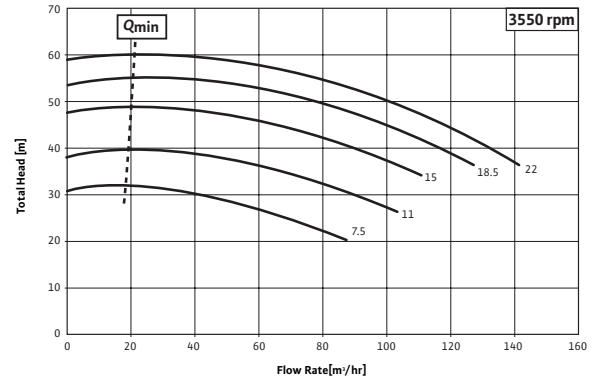


IL Series 성능곡선 2pole

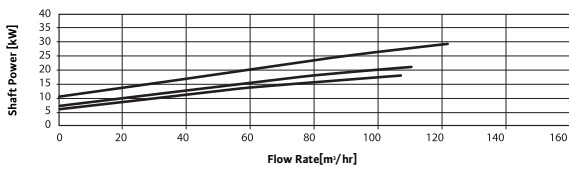
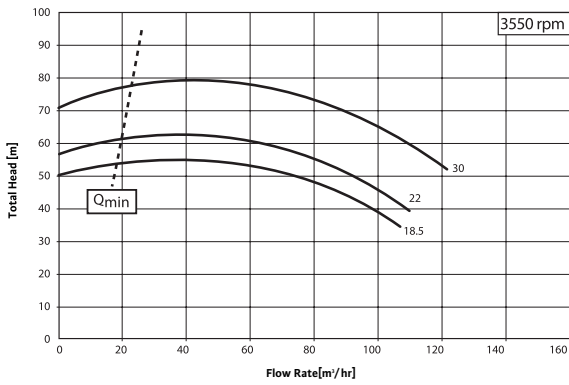
IL 65/140 Series



IL 65/170 Series



IL 65/220 Series



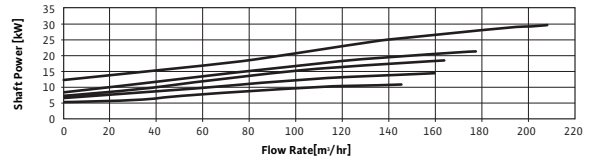
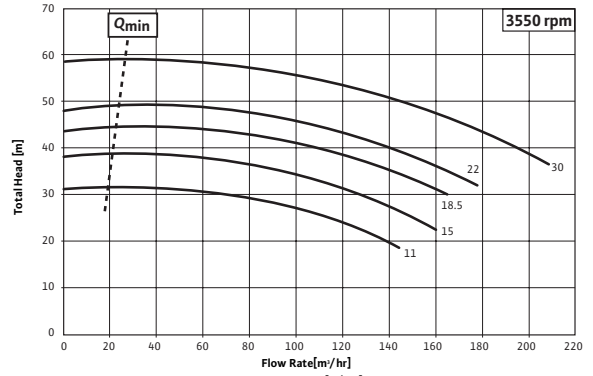
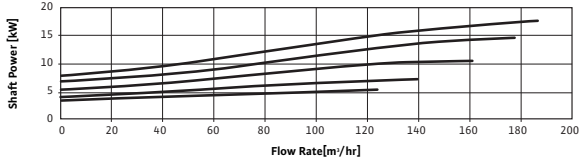
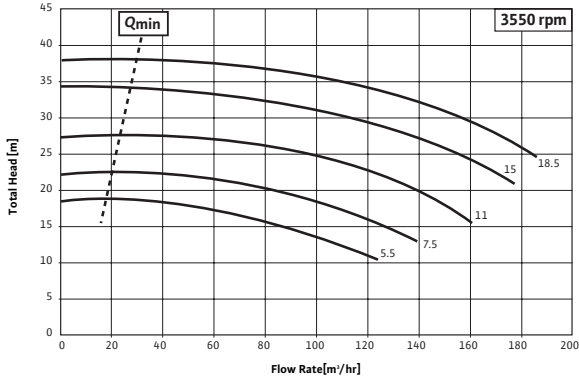
In-Line Pumps

IL Series

IL Series 성능곡선 2pole

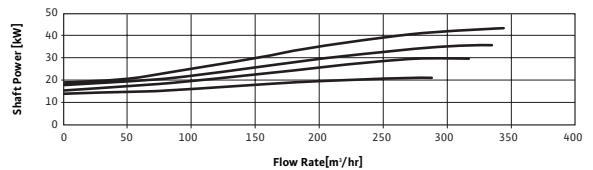
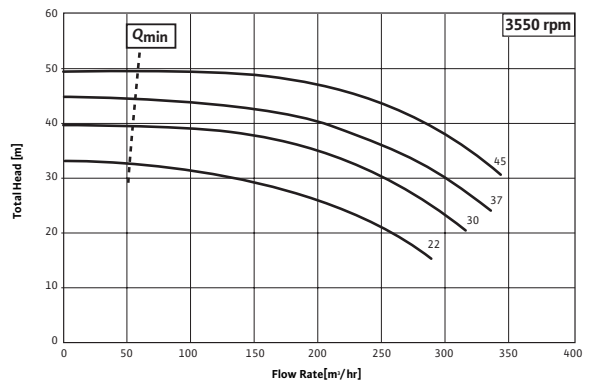
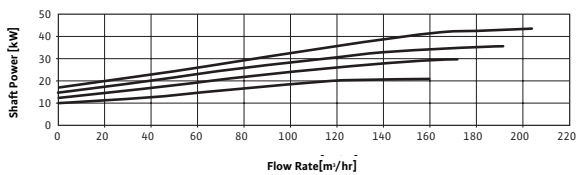
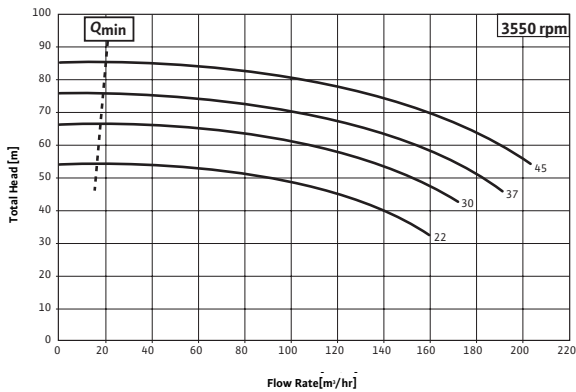
IL 80/140 Series

IL 80/170 Series



IL 80/220 Series

IL 100/170 Series



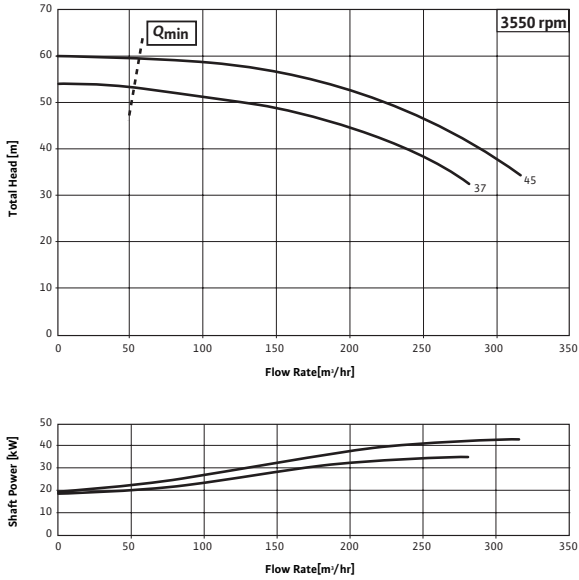
In-Line Pumps

IL Series

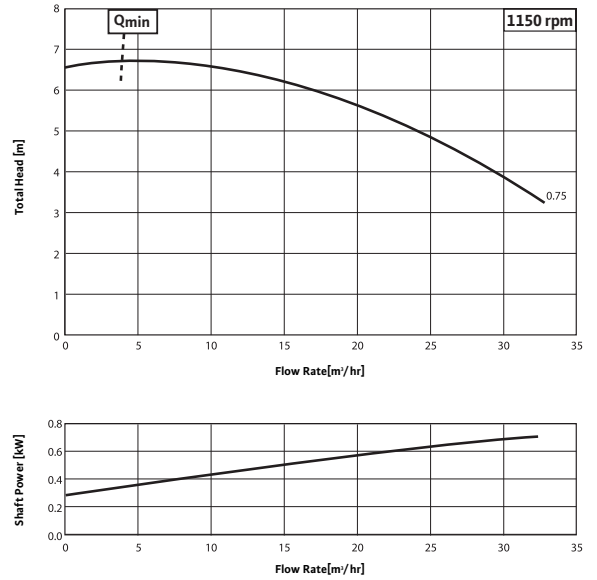


IL Series 성능곡선 6pole

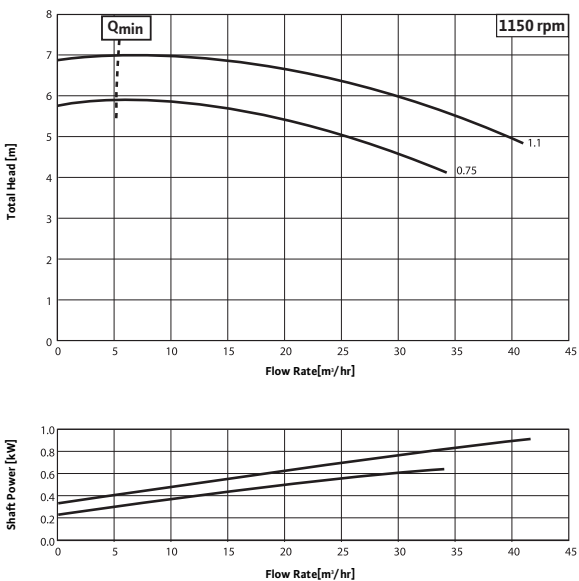
IL 100/220 Series



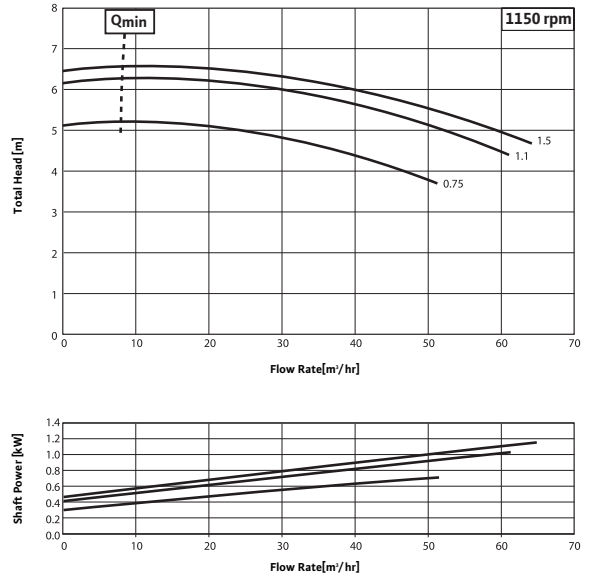
IL 50/170 Series



IL 65/170 Series



IL 80/170 Series



In-Line Pumps

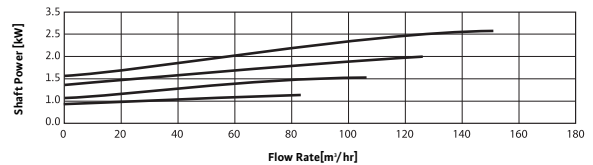
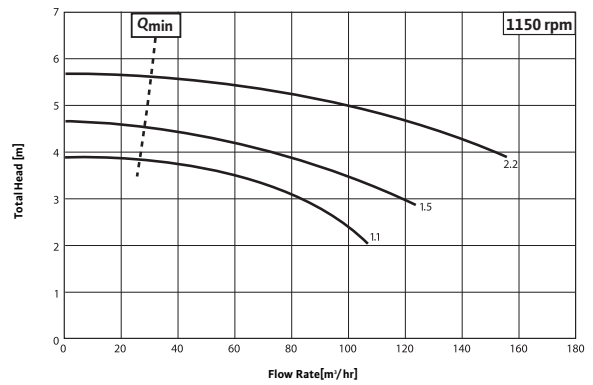
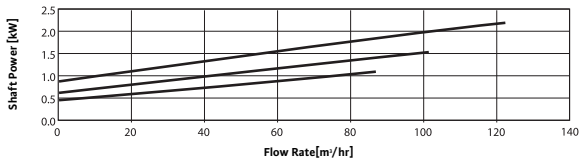
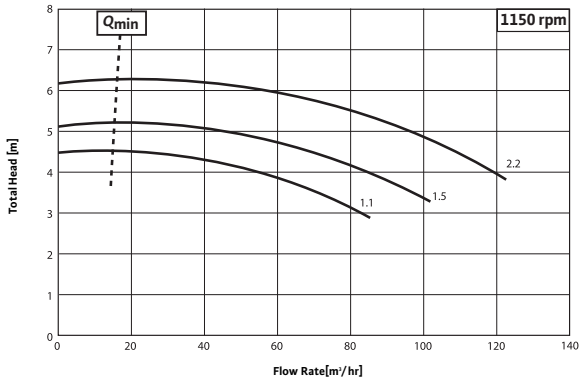
IL Series

IL Series

성능곡선 6pole

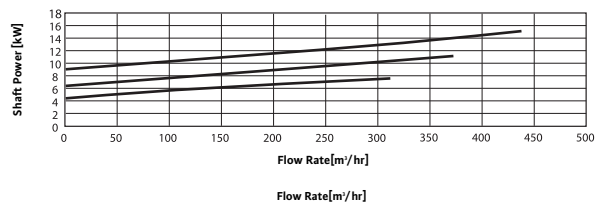
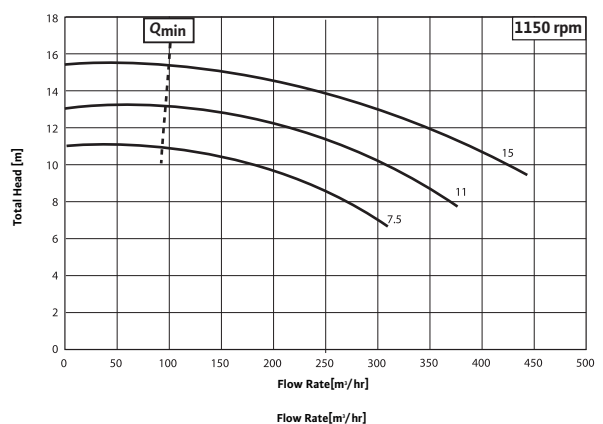
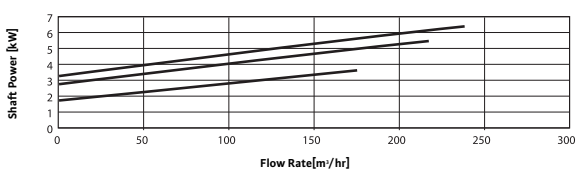
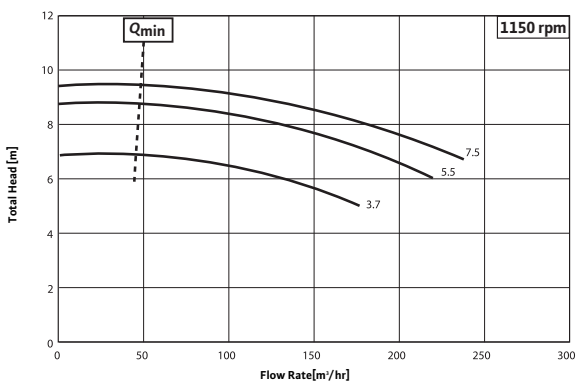
IL 100/170 Series

IL 125/170 Series



IL 150/225 Series

IL 200/270 Series



In-Line Pumps

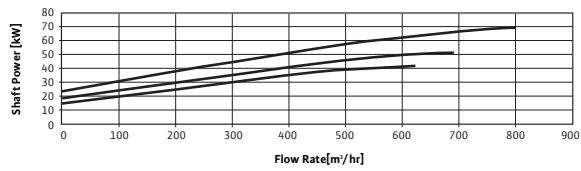
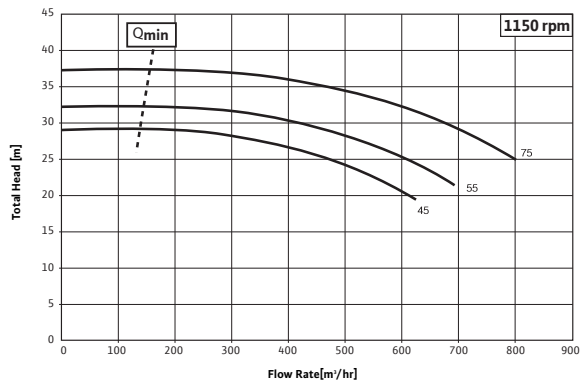
IL Series

wilo

IL Series

성능곡선 6pole

IL 250/425 Series

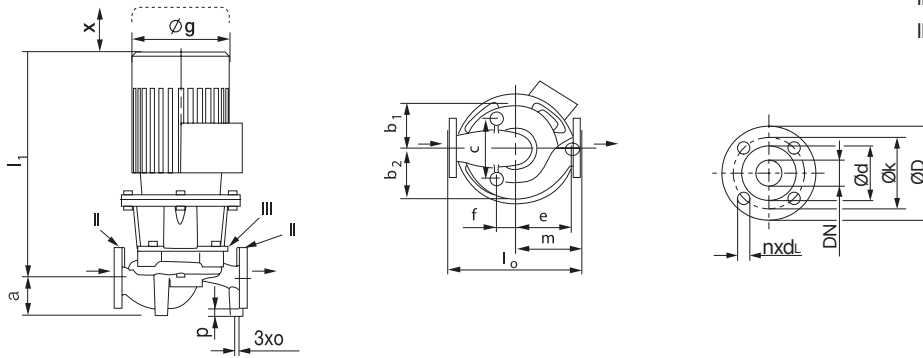


In-Line Pumps

IL Series

IL Series 외형도

외형도

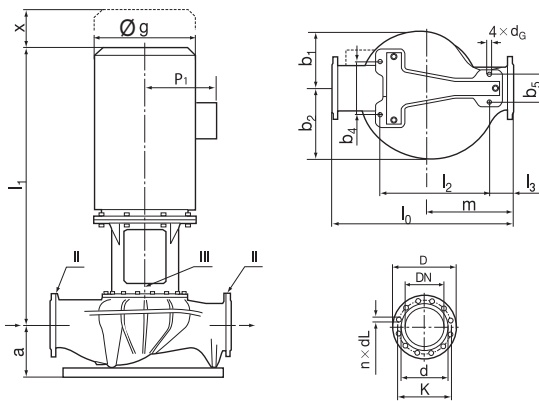


II GAUGE TAPPINGS 1/8"
III VENT PLUG 1/8"

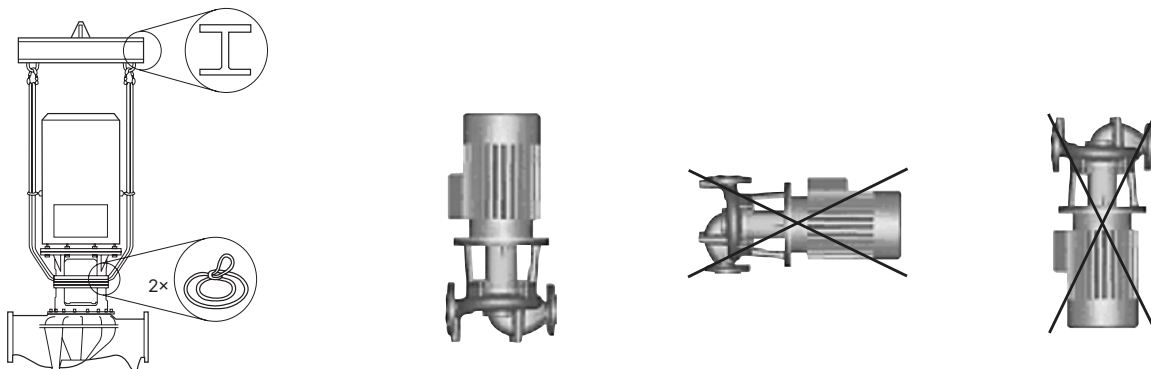
(IL 250/ IL 300/ IL 350 series제외)

※Terminal box의 위치는 모델에 따라서 다를 수 있음

외형도 (IL 250/IL 300/IL 350 Series)



이동과 설치



IL Series 외형치수

Model	DN	Dimensions (mm)														Weight (kg)
		a	b ₁	b ₂	b ₄	b ₅	d _G	Øg	~h _{max}	l ₂	l ₃	l _o	m	p ₁	x	
IL250/345-75/4	250	360	307	382	300	180	24	513	1543	555	175	1000	450	480	190	1005
IL250/345-90/4	250	360	307	382	300	180	24	513	1548	555	175	1000	450	480	190	1035
IL250/345-110/4	250	360	307	382	300	180	24	617	1758	555	175	1000	450	550	190	1240
IL250/345-132/4	250	360	307	382	300	180	24	617	1798	555	175	1000	450	550	190	1310
IL250/345-160/4	250	360	307	382	300	180	24	657	1941	555	175	1000	450	590	190	1710
IL250/425-75/4	250	321	377	496	340	180	24	513	1549	700	150	1150	575	480	190	1216
IL250/425-90/4	250	321	377	496	340	180	24	513	1554	700	150	1150	575	480	190	1246
IL250/425-110/4	250	321	377	496	340	180	24	617	1764	700	150	1150	575	550	190	1452
IL250/425-132/4	250	321	377	496	340	180	24	617	1804	700	150	1150	575	550	190	1522
IL250/425-160/4	250	321	377	496	340	180	24	657	1945	700	150	1150	575	583	190	1772
IL250/425-200/4	250	321	377	496	340	180	24	657	1947	700	150	1150	575	590	190	2022
IL250/425-45/6	250	321	377	496	340	180	24	450	1620	700	150	1150	575	434	190	1216
IL250/425-55/6	250	321	377	496	340	180	24	513	1594	700	150	1150	575	510	190	1236
IL250/425-75/6	250	321	377	496	340	180	24	513	1589	700	150	1150	575	480	190	1256
IL300/340-75/4	300	334	291	382	340	180	24	513	1549	700	190	1050	575	480	190	1228
IL300/340-90/4	300	334	291	382	340	180	24	513	1554	700	190	1050	575	480	190	1258
IL300/340-110/4	300	334	291	382	340	180	24	617	1794	700	190	1050	575	550	190	1482
IL300/340-132/4	300	334	291	382	340	180	24	617	1834	700	190	1050	575	550	190	1552
IL300/340-160/4	300	334	291	382	340	180	24	657	1977	700	190	1050	575	590	190	1952
IL350/355-110/4	350	405	264	412	340	180	24	617	1859	700	240	1200	600	550	190	1552
IL350/355-132/4	350	405	264	412	340	180	24	617	1899	700	240	1200	600	550	190	1622
IL350/355-160/4	350	405	264	412	340	180	24	657	2042	700	240	1200	600	590	190	2022
IL350/355-200/4	350	405	264	412	340	180	24	657	2042	700	240	1200	600	590	190	2122

플랜지 규격(Pumphousing Flange EN 1092-2, PN16 / PN25)				
DN	ØD	Ød		Øk
		[mm]		
				n × d _L
				Number × mm
32	140	76		4 × 19
40	150	84		4 × 19
50	165	99		4 × 19
65	185	118		4 × 19
80	200	132		8 × 19
100	220 / 235	156		8 × 19 / 8 × 23
125	250 / 270	184		8 × 19 / 8 × 28
150	285 / 300	211		8 × 23 / 8 × 28
200	340 / 360	266 / 274		12 × 23 / 12 × 28
250	405 / 425	319 / 330		12 × 28 / 12 × 31
300	460 / 485	370 / 389		12 × 28 / 16 × 31
350	520 / 555	429 / 448		16 × 28 / 16 × 34

플랜지 규격(Pumphousing Flange EN 1092-1, PN16/PN25)				
DN	ØD	Ød		Øk
		[mm]		
				n × d _L
				Number × mm
32	140	78		4 × 18
40	150	88		4 × 18
50	165	102		4 × 18
65	185	122		8 × 18
80	200	138		8 × 18
100	220 / 235	158 / 162		8 × 18 / 8 × 22
125	250 / 270	188		8 × 18 / 8 × 26
150	285 / 300	212 / 218		8 × 22 / 8 × 26
200	340 / 360	268 / 278		12 × 22 / 12 × 26
250	405 / 425	320 / 335		12 × 26 / 12 × 30
300	460 / 485	378 / 395		12 × 26 / 16 × 30
350	520 / 555	438 / 450		16 × 26 / 16 × 33

* 표준은 EN1092-2, PN-16(IL300/IL350은 EN1092-2, PN25)
 * 일부 모델에 따라 ØD치수가 상이할 수 있음 (단, EN 1092-2 규격은 만족)

In-Line Pumps

IL Series

IL Series

외형치수

외형치수 4pole															
Model	DN	a	b ₁	b ₂	c	e	f	Øg	l ₀	~l ₁	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

IL Series 외형치수

외형치수 4pole															
Model	DN	a	b ₁	b ₂	c	e	f	Øg	l ₀	~l ₁	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	402	700	1033	350	M16	25	140	463
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	402	700	1045	340	M16	25	140	481
IL125/340-45/4	125	185	238	270	280	315	140	402	700	1045	340	M16	25	140	501
IL125/340-55/4	125	185	238	270	280	315	140	445	700	1067	340	M16	25	140	582
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	402	700	1019	350	M16	25	135	511
IL150/345-37/4	150	230	300	337	300	359	135	402	770	1058	385	M16	25	145	529
IL150/345-45/4	150	230	300	337	300	359	135	402	770	1058	385	M16	25	145	549
IL150/345-55/4	150	230	300	337	300	359	135	445	770	1113	385	M16	25	145	655
IL150/345-75/4	150	230	300	337	300	359	135	513	770	1164	385	M16	25	145	737
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	402	800	1044	370	M16	25	140	565
IL200/270-45/4	200	245	281	362	330	270	165	402	800	1044	370	M16	25	140	585
IL200/270-55/4	200	245	281	362	330	270	165	445	800	1066	370	M16	25	140	666
IL200/275-45/4	200	245	268	335	330	280	155	402	800	1047	380	M16	25	140	583
IL200/275-55/4	200	245	268	335	330	280	155	445	800	1069	380	M16	25	140	664
IL200/275-75/4	200	245	268	335	330	280	155	513	800	1154	380	M16	25	140	765
IL200/345-55/4	200	245	322	370	360	380	170	445	820	1139	410	M16	25	155	725
IL200/345-75/4	200	245	322	370	360	380	170	513	820	1190	410	M16	25	155	807
IL200/345-90/4	200	245	322	370	360	380	170	510	820	1320	410	M16	25	155	920

In-Line Pumps

IL Series

IL Series

외형치수

외형치수 2pole															
Model	DN	a	b ₁	b ₂	c	e	f	Øg	l ₀	~l ₁	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
IL40/170-11/2	40	82	113	129	130	149	58	284	340	759	170	M10	20	95	112
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
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
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	402	500	953	230	M12	20	120	375
IL80/220-45/2	80	145	157	182	220	208	62	402	500	933	230	M12	20	120	385
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	402	500	984	250	M12	20	135	372
IL100/170-45/2	100	120	158	196	200	226	60	402	500	964	250	M12	20	135	382
IL100/220-37/2	100	155	173	202	220	231	99	402	550	984	255	M12	20	110	372
IL100/220-45/2	100	155	173	202	220	231	99	402	550	964	255	M12	20	110	382

In-Line Pumps

IL Series



IL Series 외형치수

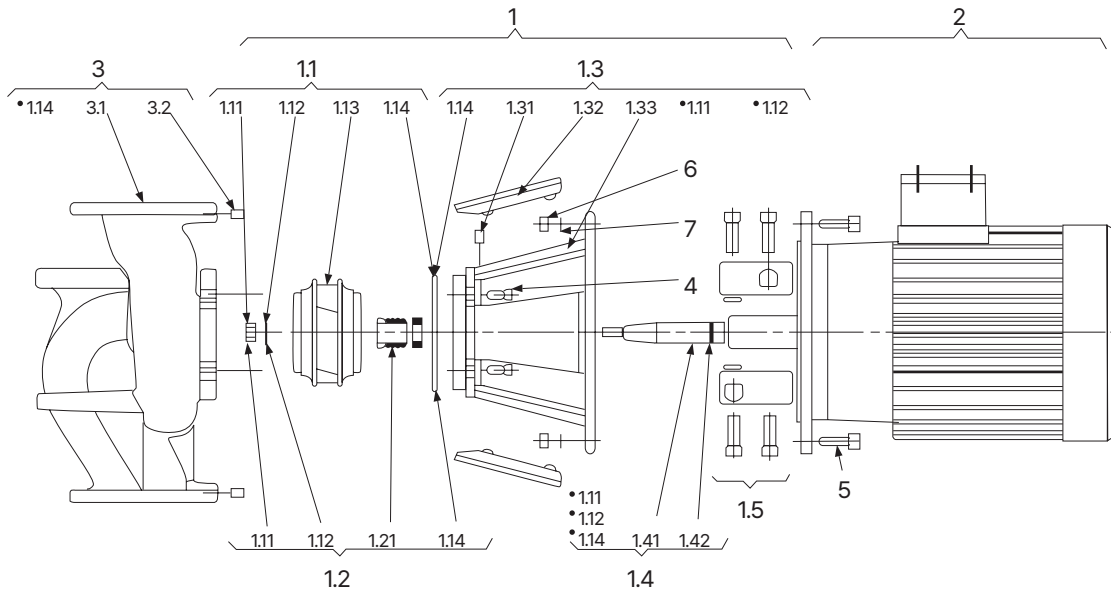
외형치수 6pole															
Model	DN	a	b ₁	b ₂	c	e	f	Øg	l _o	~l ₁	m	o	p	x	Weight (kg)
		(mm)													
IL50/170-0.75/6	50	103	120	139	164	143	48	193	340	522	170	M10	20	100	60
IL65/170-0.75/6	65	110	127	147	180	195	60	193	430	528	215	M12	20	120	66
IL65/170-1.1/6	65	110	127	147	180	195	60	236	430	593	215	M12	20	120	74
IL80/170-0.75/6	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

IL Series

분해도

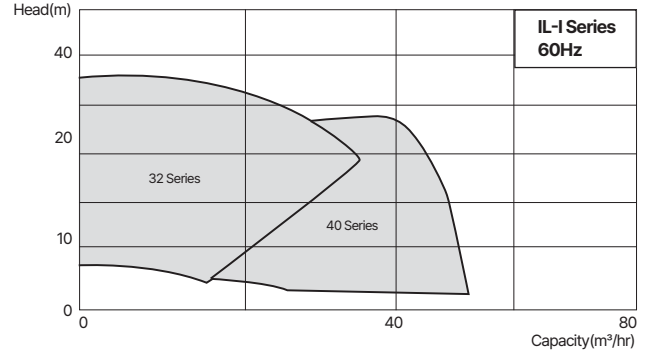


주기: IL 250 series는 해당되지 않음

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	1.33 Lantern	EN-GJL250
		1.11 Nut	DIN934 A2
1.12 Plain washer		DIN125 A2	
1.14 O-ring		EPDM	
1.5 Coupling complete	1.41 Shaft	1.4122	
	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

IL-I Series 제품 소개



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

기술자료

- 사용 액체
 - VDI 2035에 준하는 온수, 냉수, 냉각용수, 열교환 용수, 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 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
- 플랜지 PN 16 (EN 1092-1) 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/Carbon/EPDM

특장점

- 스테인레스 스틸 재질 표준 채택
- 커플링 연결구조 or Long Shaft 구조
- 케이싱
 - 흡/토출구의 크기가 같은 인라인 펌프케이싱
- 임펠러
 - 3차원 유동해석을 통한 최적설계
 - 유체의 저항을 최소화 하여 고효율 실현
- 모터 : IEC 표준 모터 적용으로 높은 호환성
- 미캐니컬 실표준 장착

In-Line Pumps

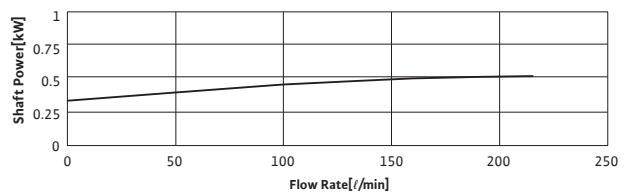
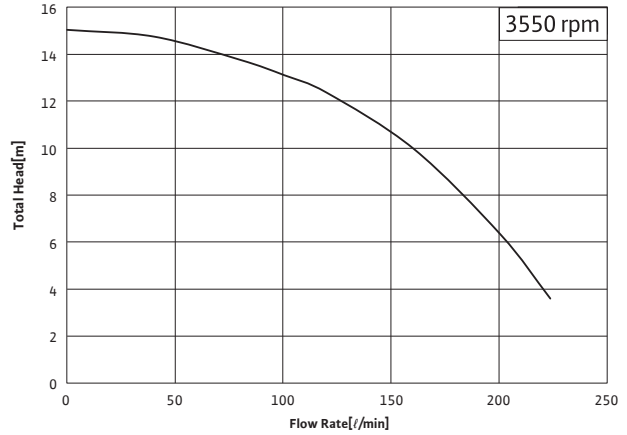
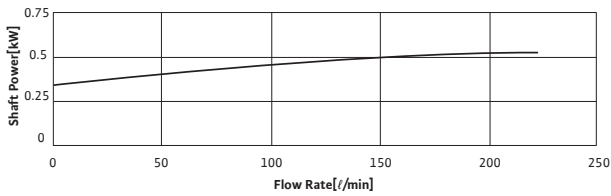
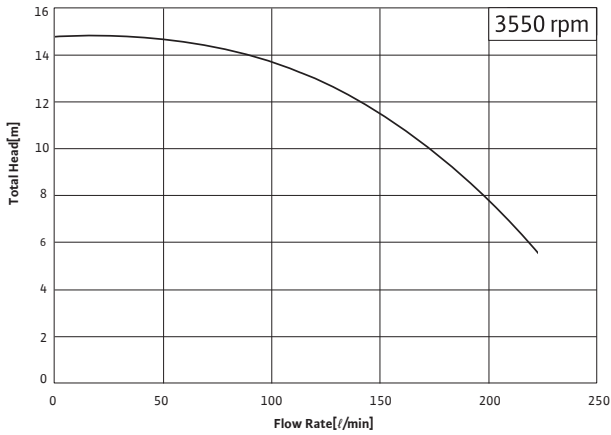
IL-I Series

IL-I Series

성능곡선 2pole

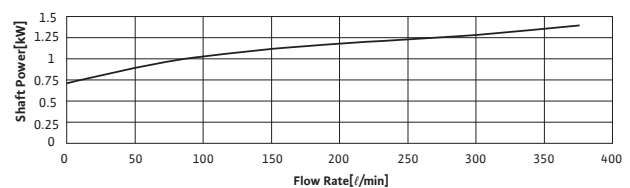
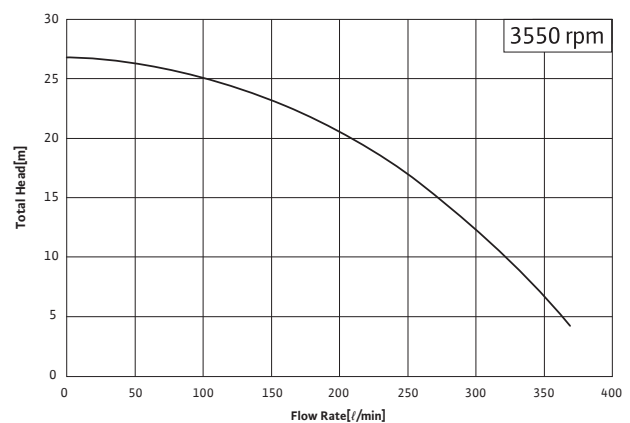
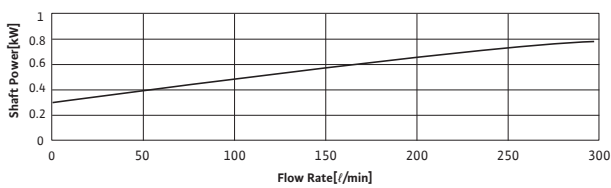
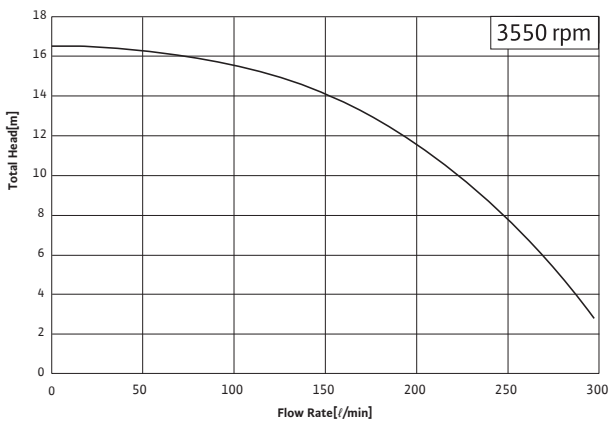
IL-I32/135-0.55/2 (단상, 220V)

IL-I32/135-0.75/2



IL-I40/135-0.75/2

IL-I40/135-1.5/2



In-Line Pumps

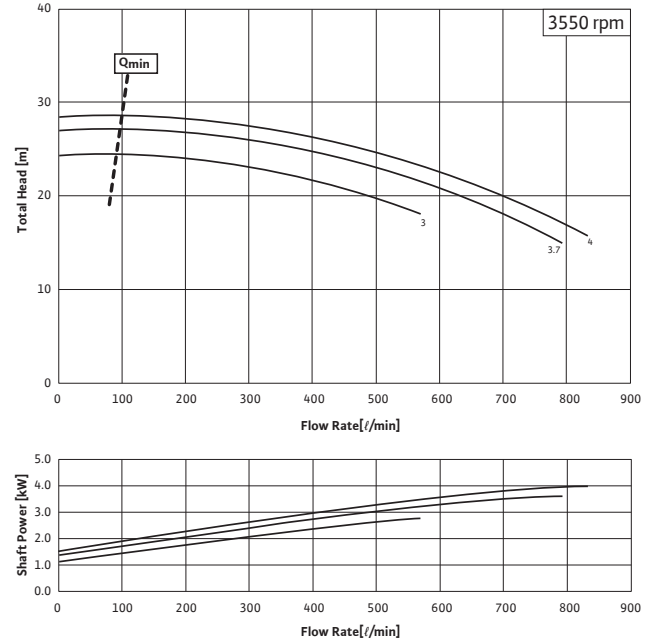
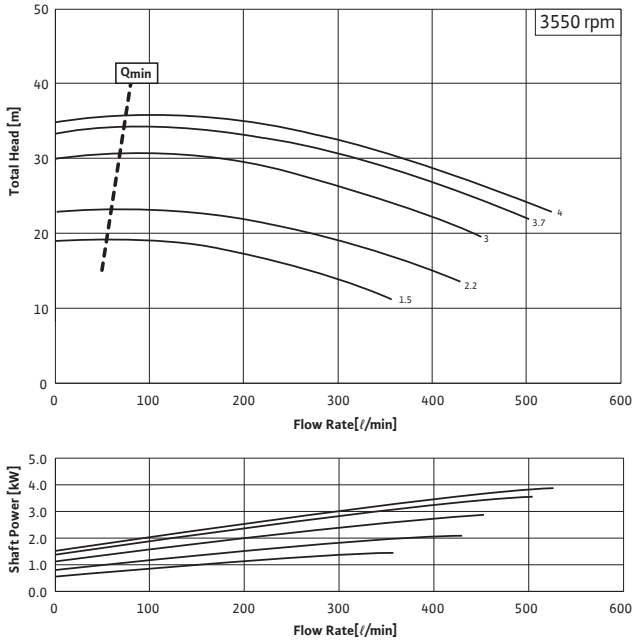
IL-I Series



IL-I Series 성능곡선 2pole

IL-I32/170 Series

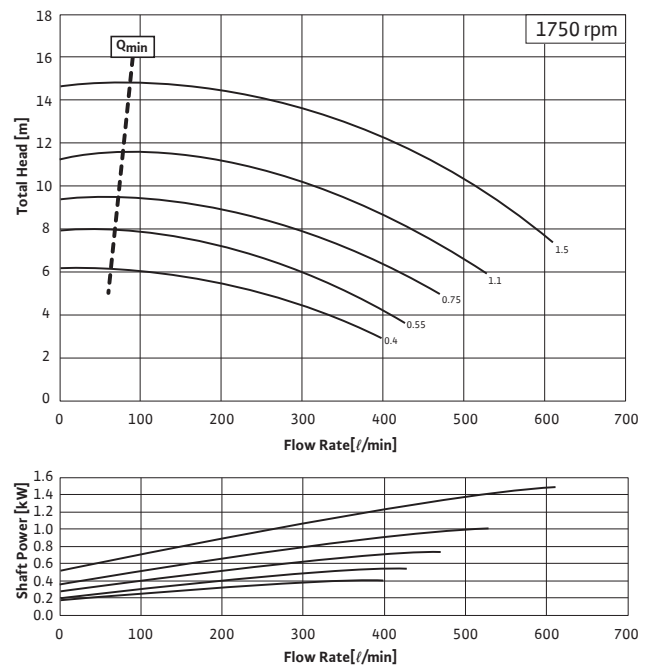
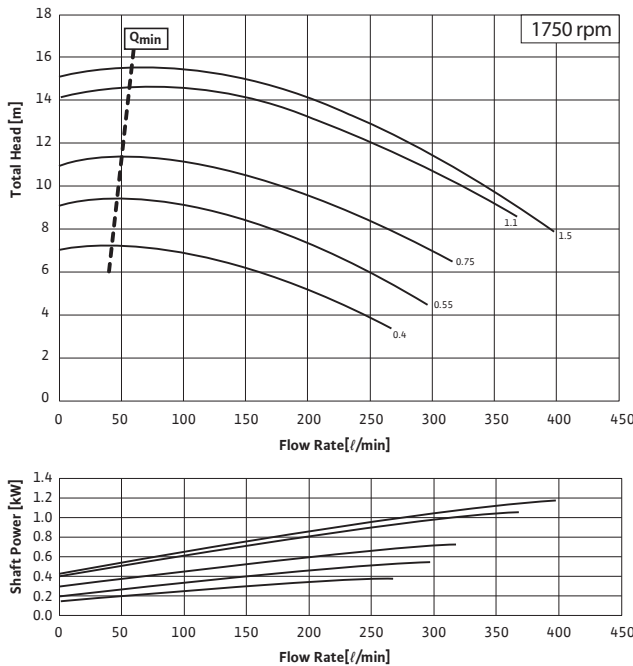
IL-I40/170 Series



In-Line Pumps-IL-I Series 성능곡선 4pole

IL-I32/170 Series

IL-I40/170 Series



In-Line Pumps

IL-I Series

IL-I Series

외형치수

외형치수 2pole

Model	DN	a	b ₁	b ₂	c	e	f	Øg	l ₀	~l ₁	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 ₁	b ₂	c	e	f	Øg	l ₀	~l ₁	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

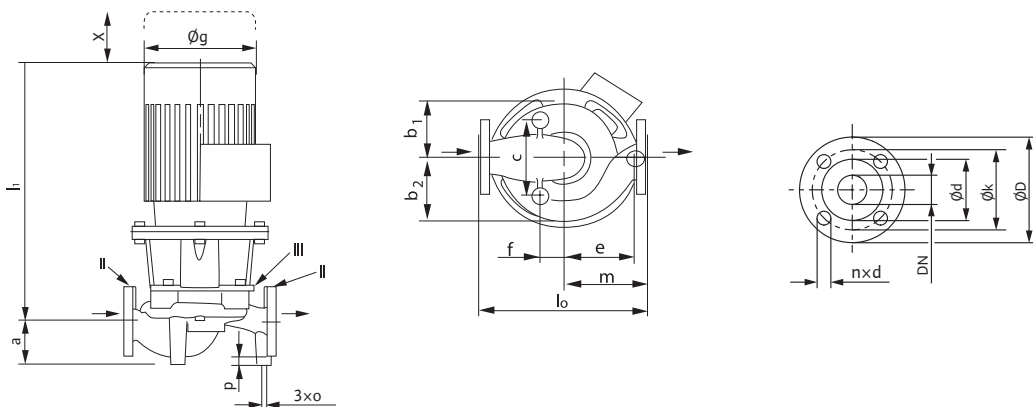
플랜지 규격(Pumphousing Flange EN 1092-1, PN16/PN25)

DN	ØD	Ød	Øk	n × d _t
	[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)



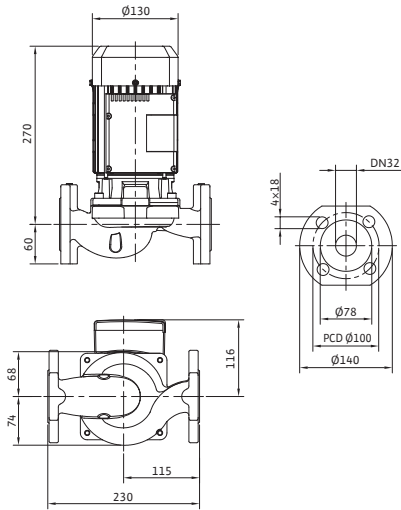
In-Line Pumps

IL-I Series

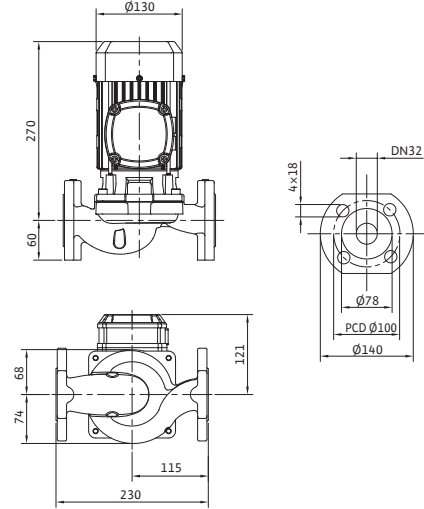
wilo

IL-I Series 외형도

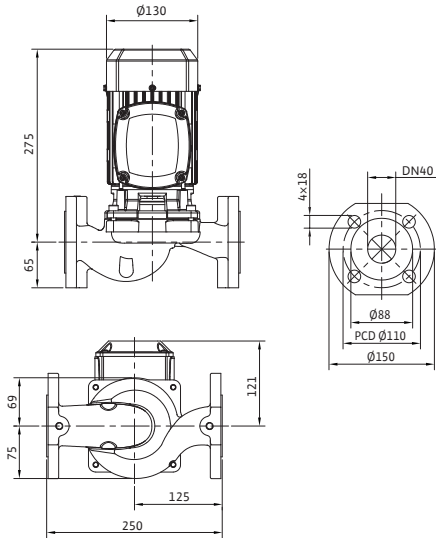
외형도(IL-132/135-0.55/2)



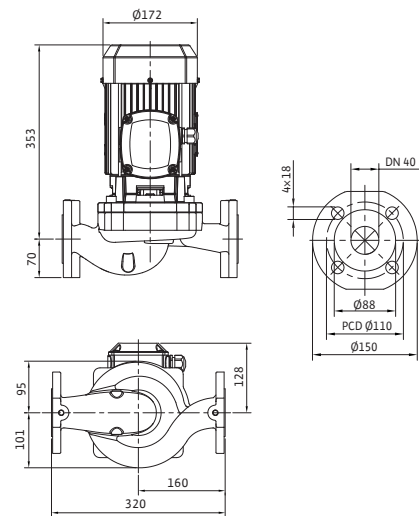
외형도(IL-132/135-0.75/2)



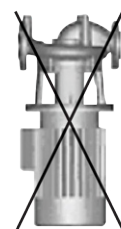
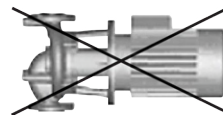
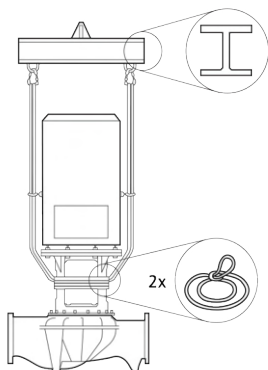
외형도(IL-140/135-0.75/2)



외형도(IL-140/135-1.5/2)



이동과 설치



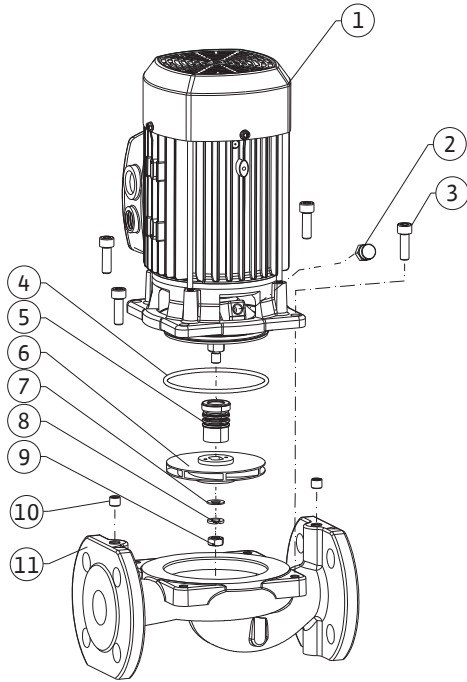
In-Line Pumps

IL-I Series

IL-I Series

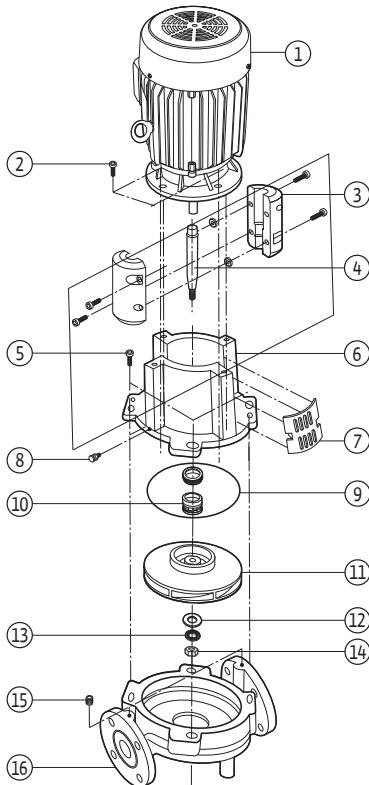
분해도

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	Pumphousing	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	EPDM
10	M.Seal	Sic/Carbon-EPDM
11	Impeller	SSC13(STS)
12	Washer	STS
13	Spring washer	STS
14	Nut	STS
15	Plug	STS
16	Pumphousing	SSC13(STS)

IPL Series 제품 소개



- 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

모델명

- 예) IPL 40/160 - 1.5/2
- IPL : 저압 인라인 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

- 사용 액체
VDI 2035에 준하는 온수, 냉수, 냉각용수, 열교환 용수, 글리콜 혼합용수(20%미만)
- 운전 범위
최대 유량 : 70m³/hr
최고 양정 : 28m
- 최대허용압력
10bar
- 사용 온도
-10°C~ +120°C

특장점

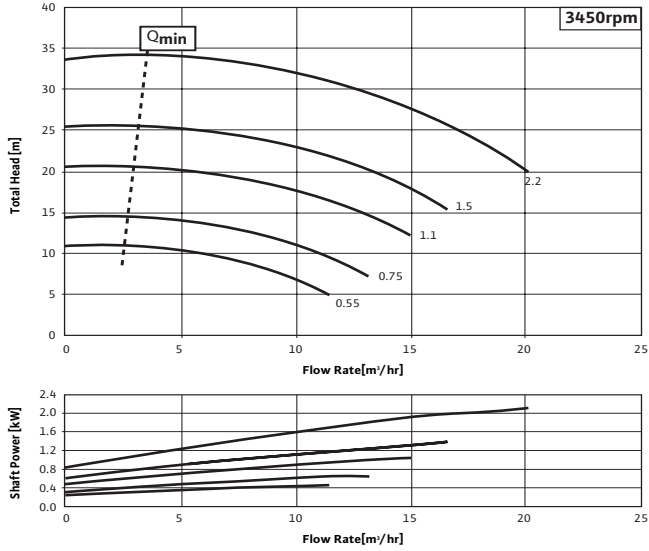
- 구조
Closed-coupled type
- 케이싱
흡/토출구의 크기가 같은 인라인 펌프케이싱
전착도장 적용으로 내부식성 강화
- 임펠러
3차원 유동해석을 통한 최적설계
유체의 저항을 최소화하여 고효율 실현
- 모터
효율 관리 기자재 운용규정 만족
- 미캐니컬 실
표준 미캐니컬 실 장착

In-Line Pumps

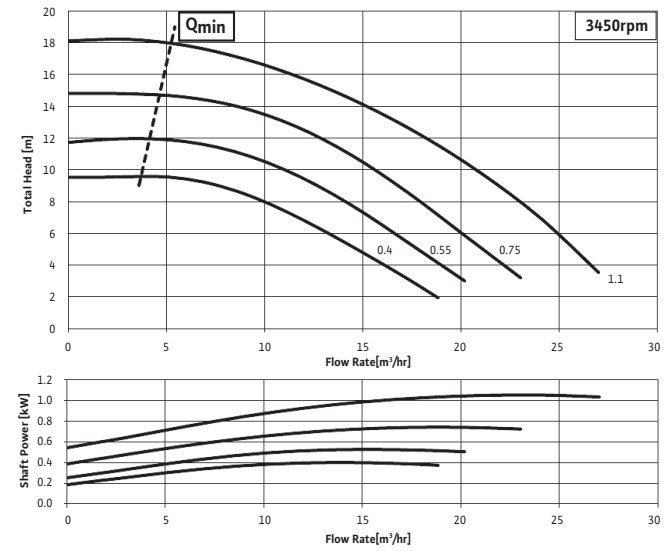
IPL Series

IPL Series 성능곡선 2pole

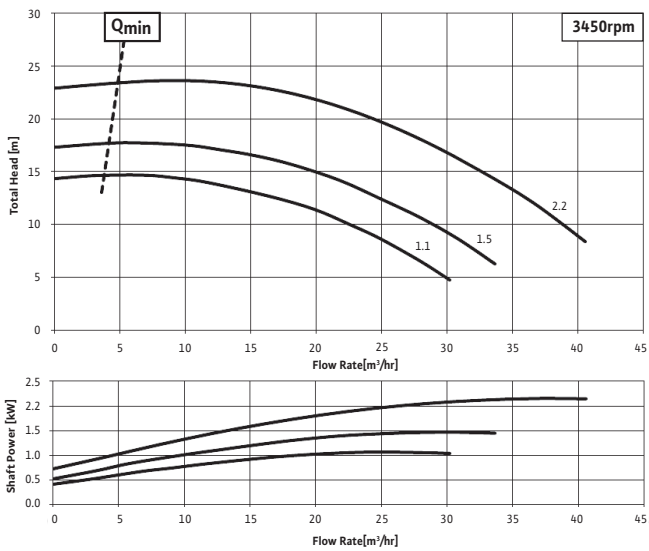
IPL 32/135 Series



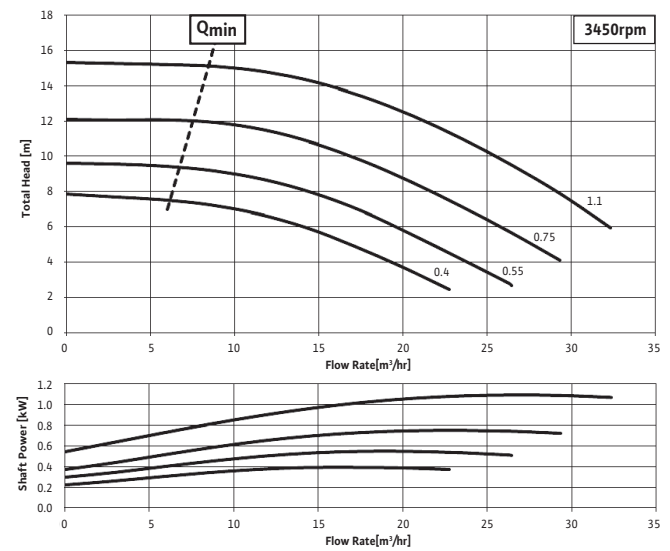
IPL 40/110 Series



IPL 40/160 Series



IPL 50/110 Series



In-Line Pumps

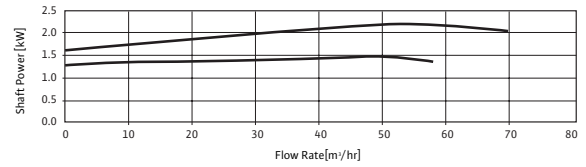
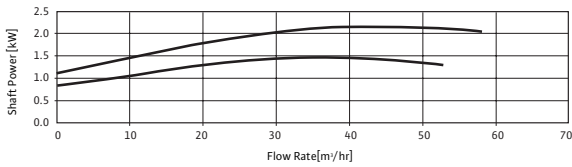
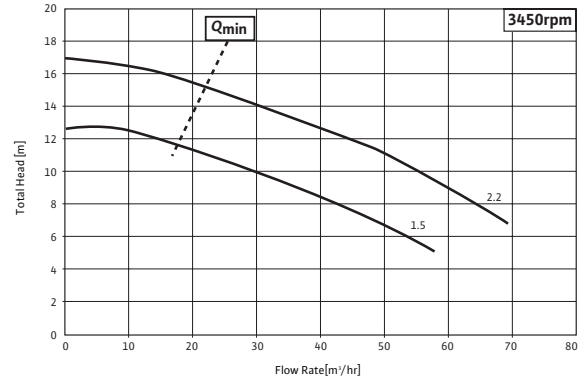
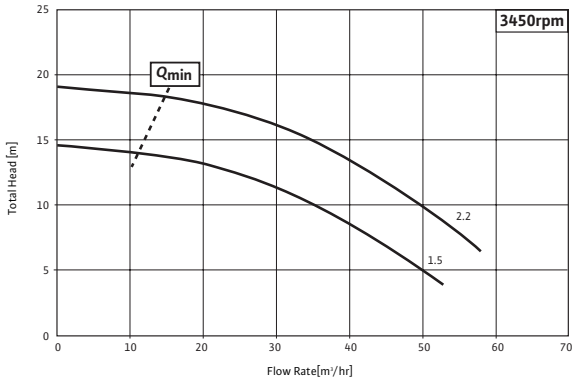
IPL Series



IPL Series 성능곡선 2pole

IPL 65/110 Series

IPL 80/110 Series



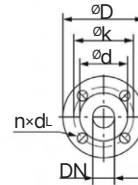
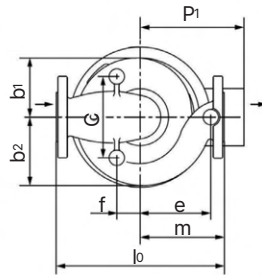
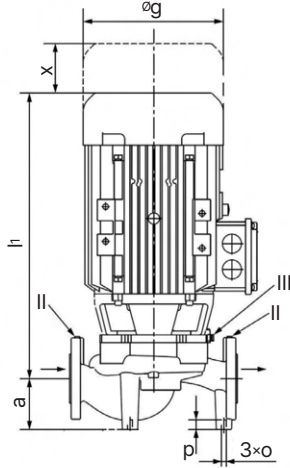
In-Line Pumps

IPL Series

IPL Series

외형도 및 치수

외형도



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

외형치수

Model	DN	a	b ₁	b ₂	c	e	f	Øg	l ₀	~h	m	o	p	P ₁	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
IPL50/110-0.11/2	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	ØD	Ød	Øk	nxD _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

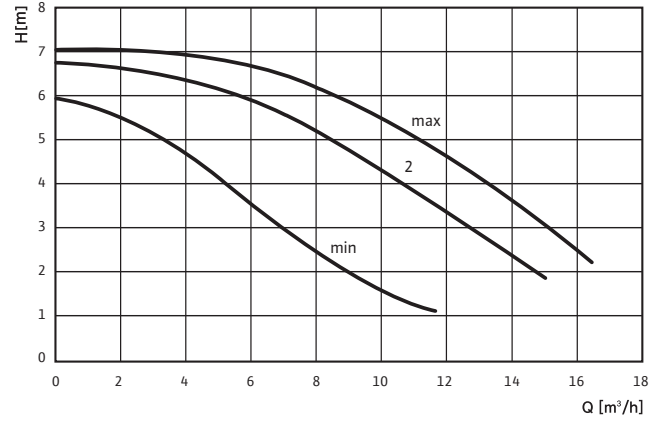
TOP-S Series



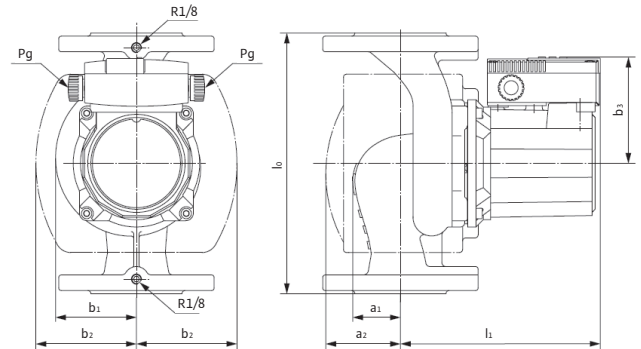
TOP-S Series 제품 소개



성능 곡선



외형도



모델명

TOP-S40/7 EM PN6/10 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

- 사용 액체
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

외형치수

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

In-Line Pumps

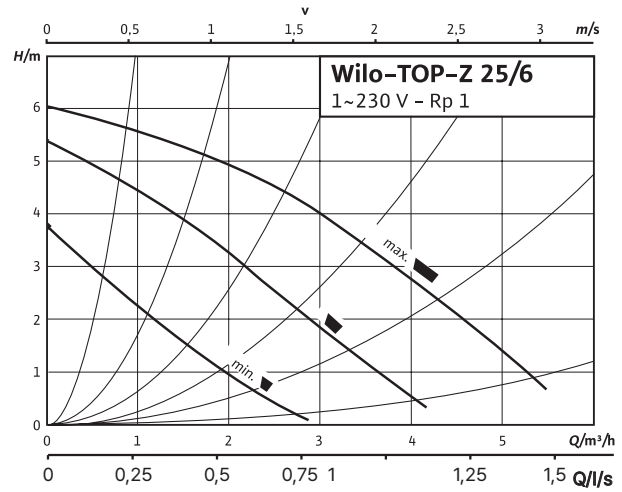
TOP-Z Series

TOP-Z Series

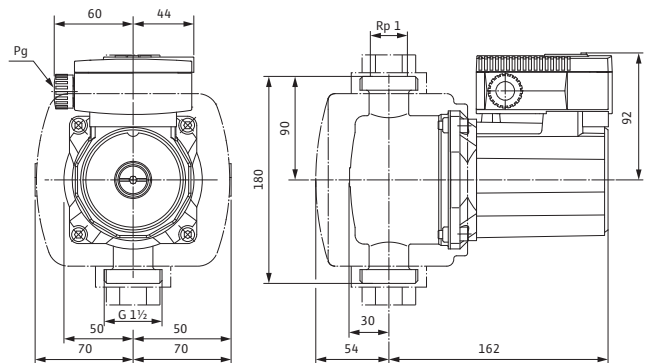
제품 소개



성능 곡선



외형도



모델명

TOP-Z25/6 EM PN6/10

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

적용범위

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

기술자료

- 사용 액체
VDI 2035에 준하는 온수, 냉수, 냉각용수,
열교환 용수, 글리콜 혼합용수 (20% 미만)
- 최대허용압력
10bar

In-Line Pumps

PIL Series



PIL Series 제품 소개



적용범위

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

특징

- 배관과 배관사이에 간편하게 설치할 수 있으며, 배관으로부터 펌프케이싱 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
- 접액부 재질 변경
- 미캐니컬 실 재질 변경
- 상대 플랜지 부착
- 모터 형식, 구조, 동력, 주파수, 전압 변경
- 20kgf/cm² option 가능

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

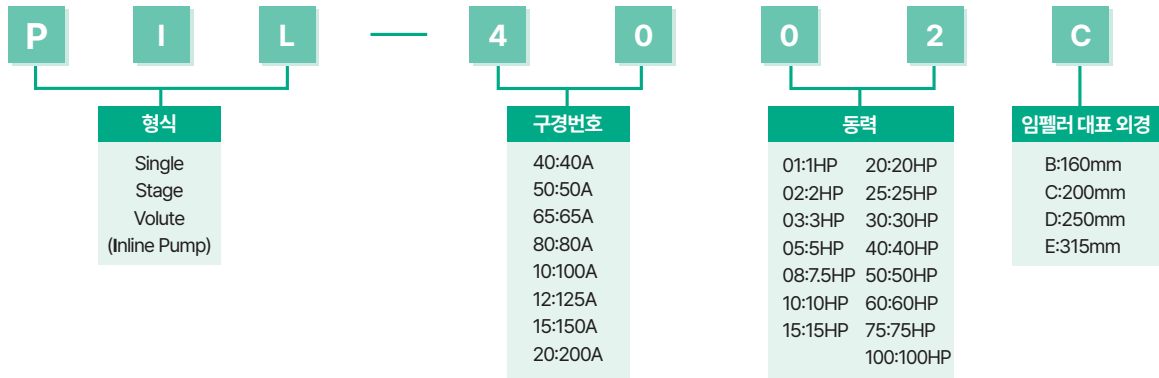
* 고온, 특수액을 취급할 경우에는 이송액의 특성(온도, 비중, 점도, 고형물의 유무)과 사용조건에 따라 미캐니컬 실, 펌프 본체, Motor의 내마모성, 내식성이 현저히 변화하는 경우가 있으므로 반드시 영업 또는 공장으로 문의

In-Line Pumps

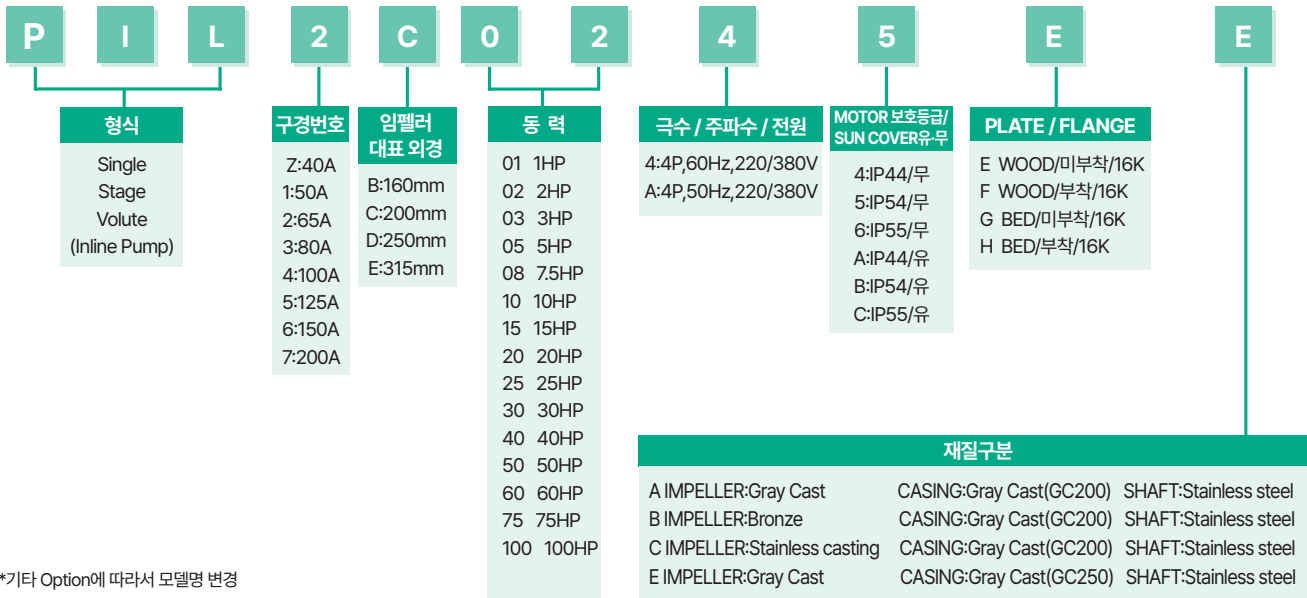
PIL Series

PIL Series 모델명

대표 모델명



모델명



*기타 Option에 따라서 모델명 변경

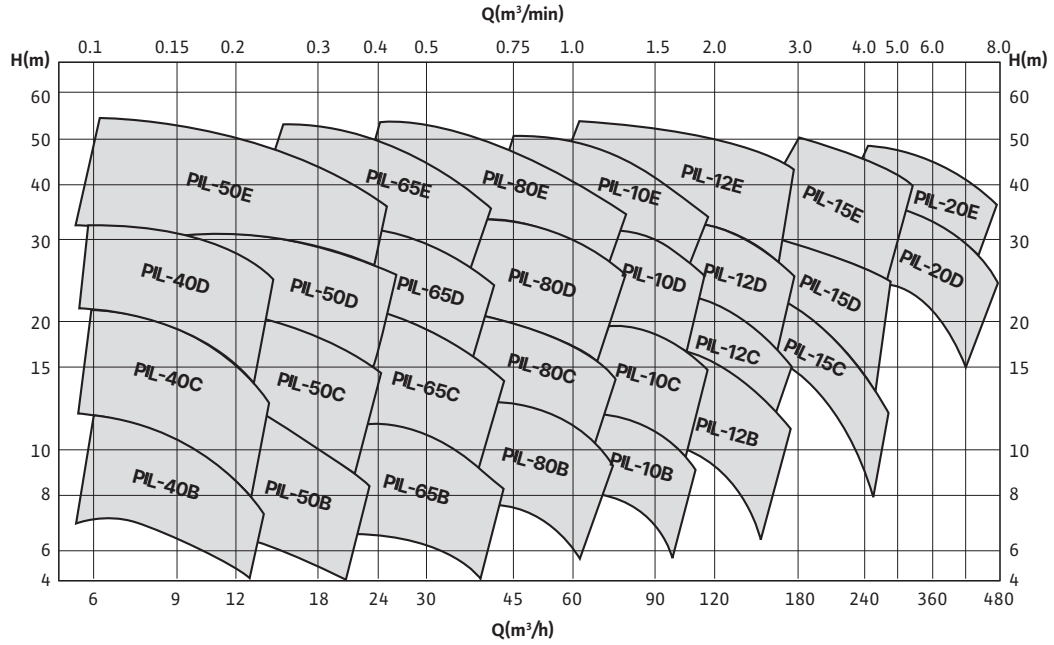
In-Line Pumps

PIL Series



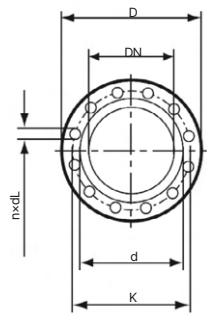
PIL Series 선정도 및 플랜지 규격

선정도



플랜지 규격

KS Flange



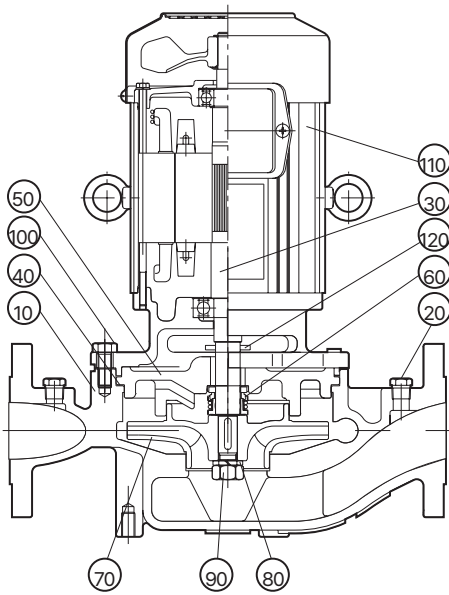
구분	DN	D	d	K	n	dL	볼트
10kgf/cm ²	32	135	76	100	4	19	M16
	40	140	81	105	4	19	M16
	50	155	96	120	4	19	M16
	65	175	116	140	4	19	M16
	80	185	126	150	8	19	M16
	100	210	151	175	8	19	M16
	125	250	182	210	8	23	M20
	150	280	212	240	8	23	M20
	200	330	262	290	12	23	M20
	250	400	324	355	12	25	M22
16kgf/cm ² (표준)	300	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
	150	305	230	260	12	25	M22
	200	350	275	305	12	25	M22
20kgf/cm ²	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

PIL Series

단면도

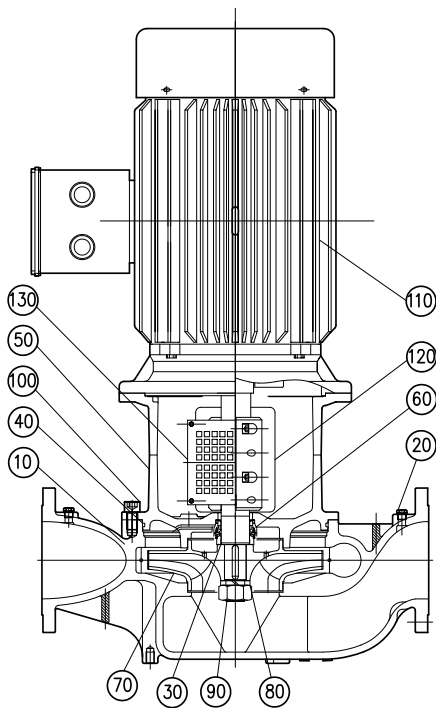


<40B ~ 15D>

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	물막음 턱 (Deflector)	Rubber

*는 선택가능 재질

* MOTOR의 Option은 영업 또는 공장에 문의



<15E ~ 20E>

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

PIL Series 제품사양

인라인 펌프의 장점

1. 케이싱

- 흡입구에 정류판을 설치하여 흡입성능을 향상시키고, 순환수의 와류 및 케비테이션 감소
- 16kgf/cm² 또는 20kgf/cm² (option)으로 가압조건에 사용가능한 단, 수격현상(워터해머)에 대해서는 보증하지 않음
- 흡입, 토출측에 압력을 측정 할 수 있도록 Plug(3/8",1/4")가 장착
- 지상 설치가 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
- CAD 에 의한 3차원 Vane으로 양수성능이 우수
- STS304 재질의 임펠러 고정용 와셔는 내부식성이 우수

3. 미캐니컬 실

- Carbon/Silicon Carbide 재질을 기본으로 장착하고 있어, 순환수 수온120°C, Glycol 20%, 최대 40%까지 Option으로 사용 가능
- 일시적인 역회전에서도 누수가 되지 않음
- 케이싱 커버에 형성된 자체 Flushing 구멍은 윤활, 냉각 작용을 항상
- 임펠러에 의해 고정되어 분해, 조립이 간편

4. 모터

- 알루미늄 프레임(10HP 이하)을 적용하여 외관이 깨끗하고 열발산이 잘 되도록 냉각핀이 형성
- 16kgf/cm² 또는 20kgf/cm²의 운전에도 견딜 수 있는 option모델 공급 가능하며, 밀폐형 볼 베어링을 장착
- Shaft의 재질을 STS410으로 채용하여 내식성을 향상

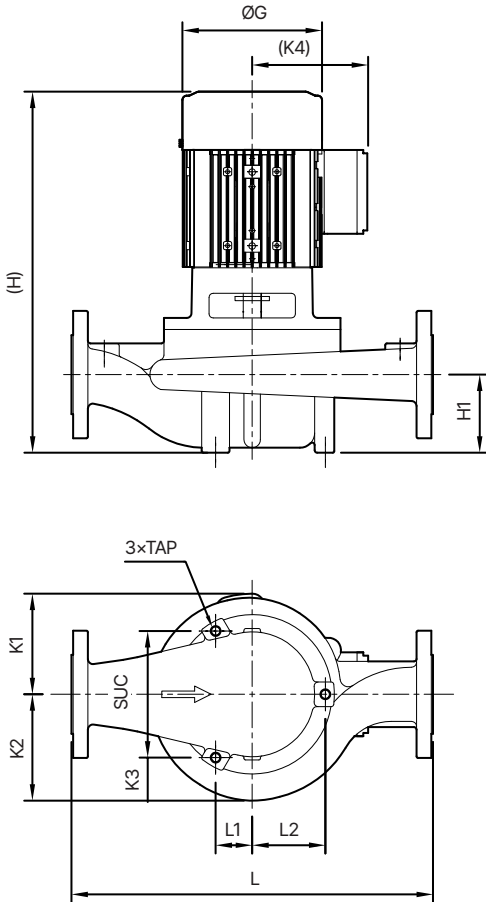
Model	구경 (흡입X토출)	동력	
		(HP)	(kW)
PIL-4001B	40X40	1	0.75
PIL-4002B	40X40	2	1.5
PIL-5001B	50X50	1	0.75
PIL-5002B	50X50	2	1.5
PIL-6502B	65X65	2	1.5
PIL-6503B	65X65	3	2.2
PIL-8003B	80X80	3	2.2
PIL-8005B	80X80	5	3.7
PIL-1005B	100X100	5	3.7
PIL-1008B	100X100	7.5	5.5
PIL-1208B	125X125	7.5	5.5
PIL-1210B	125X125	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

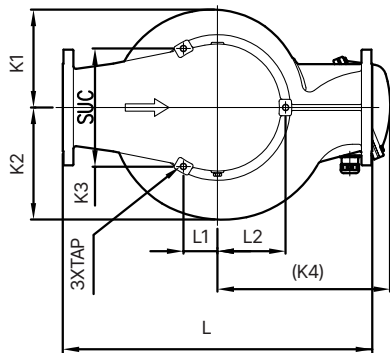
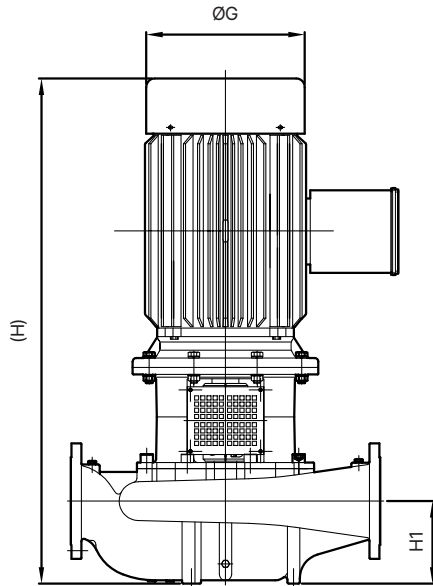
*()는 부착 모터에 따라 차이가 있으며, 참고 치수

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	1187	200	238	272	286	409	750	83	165	402	M16	535
PIL-1560E	1187	200	238	272	286	409	750	83	165	402	M16	520
PIL-1575E	1209	200	238	272	286	443	750	83	165	445	M16	600
PIL-2040D	1228	240	230	295	395	317	905	114	228	358	M16	540
PIL-2050D	1316	240	230	295	395	409	905	114	228	402	M16	575
PIL-2060D	1316	240	230	295	395	409	905	114	228	402	M16	560
PIL-2060E	1236	240	271	332	395	409	905	114	228	402	M16	590
PIL-2075E	1258	240	271	332	395	443	905	114	228	445	M16	670
PIL-20100E	1328	240	271	332	395	480	905	114	228	513	M16	770

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

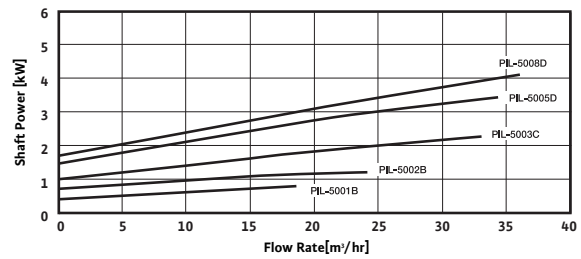
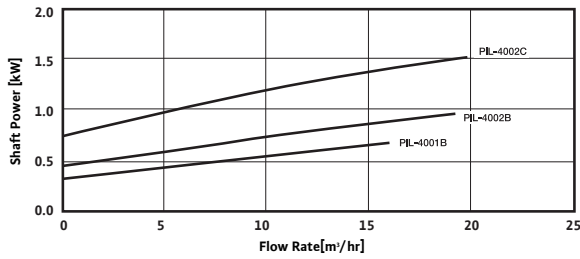
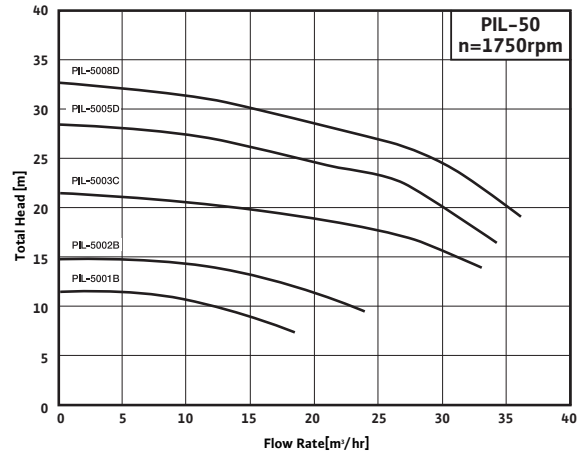
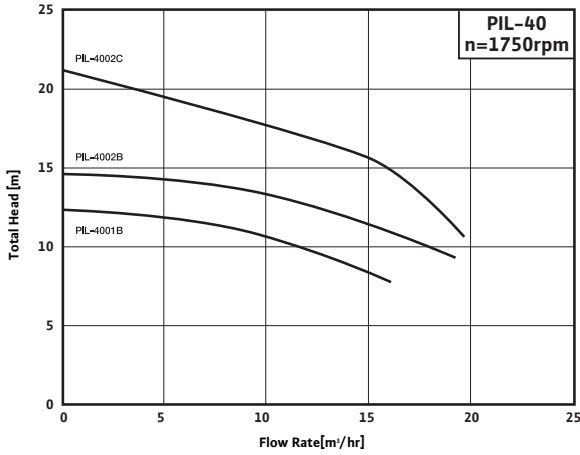
In-Line Pumps

PIL Series

PIL Series 성능곡선

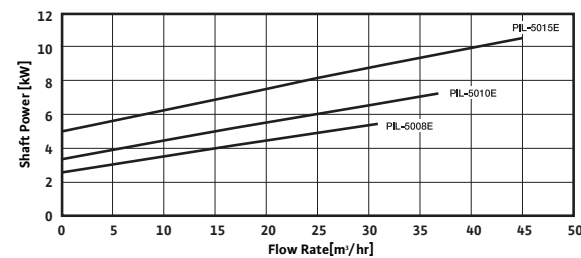
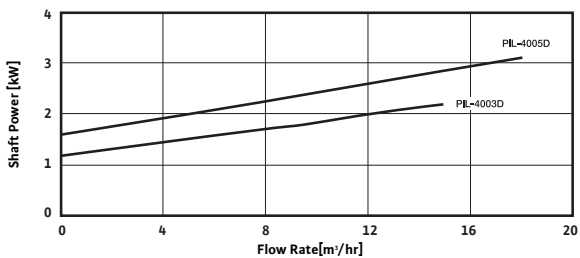
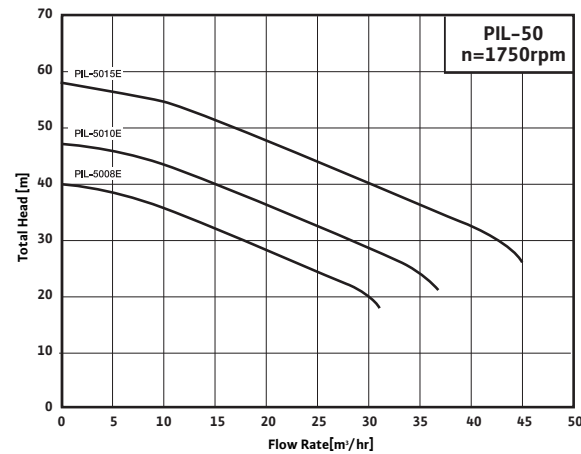
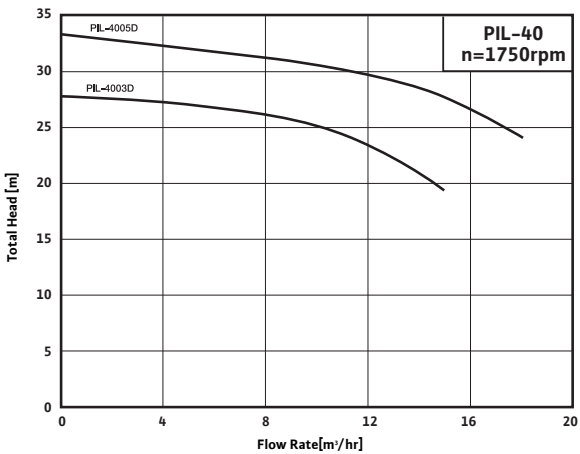
PIL- 4001B~PIL- 4002C

PIL- 5001B~PIL- 5008D



PIL- 4003D~PIL- 4005D

PIL- 5008E~PIL- 5015E



In-Line Pumps

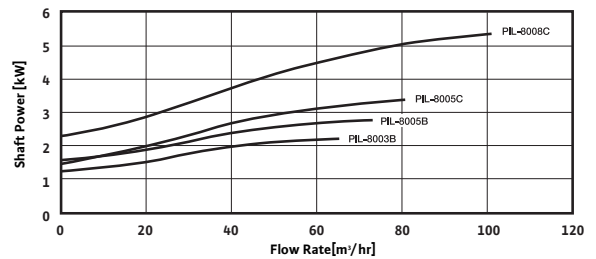
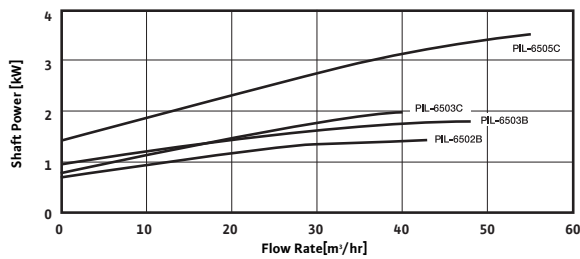
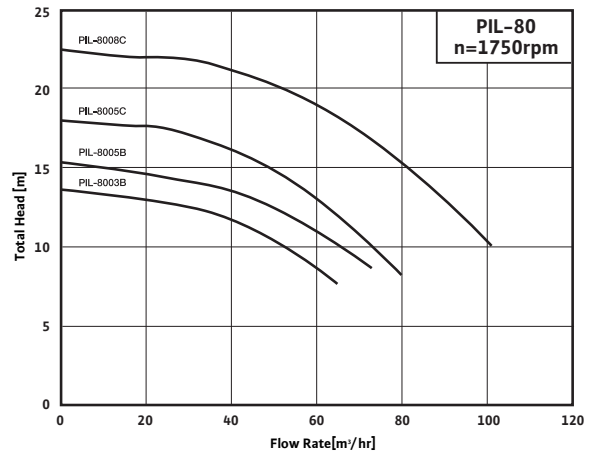
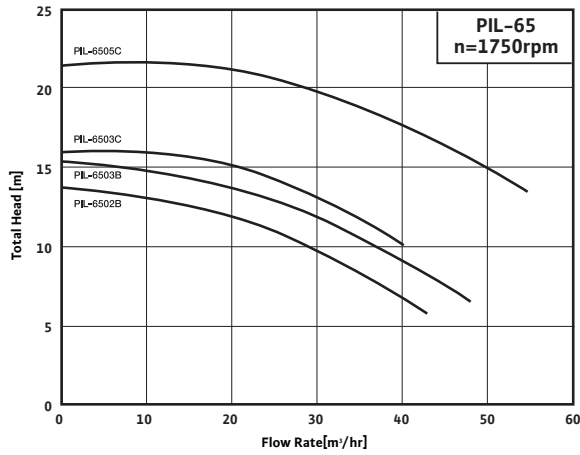
PIL Series



PIL Series 성능곡선

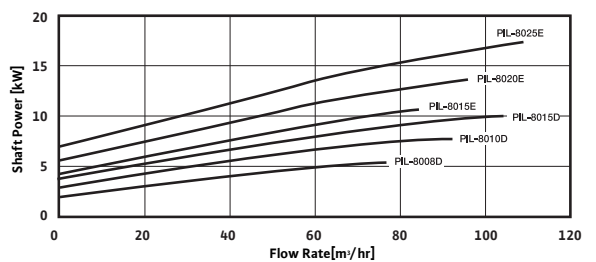
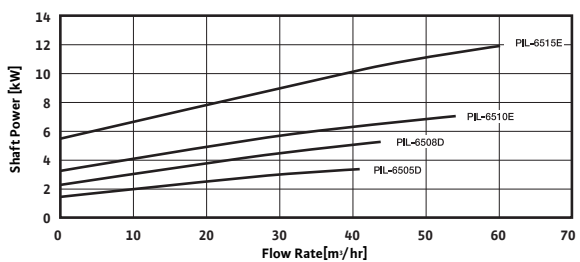
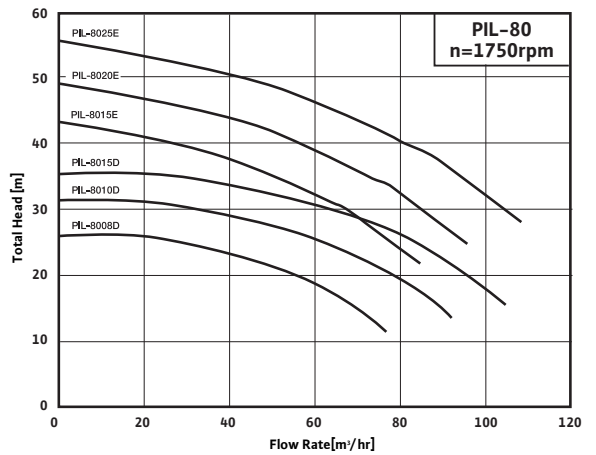
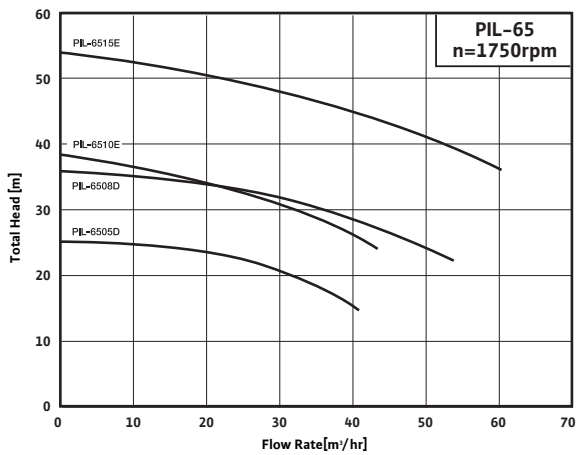
PIL- 6502B~PIL- 6505C

PIL- 8003B~PIL- 8008C



PIL- 6505D~PIL- 6515E

PIL- 8008D~PIL- 8025E



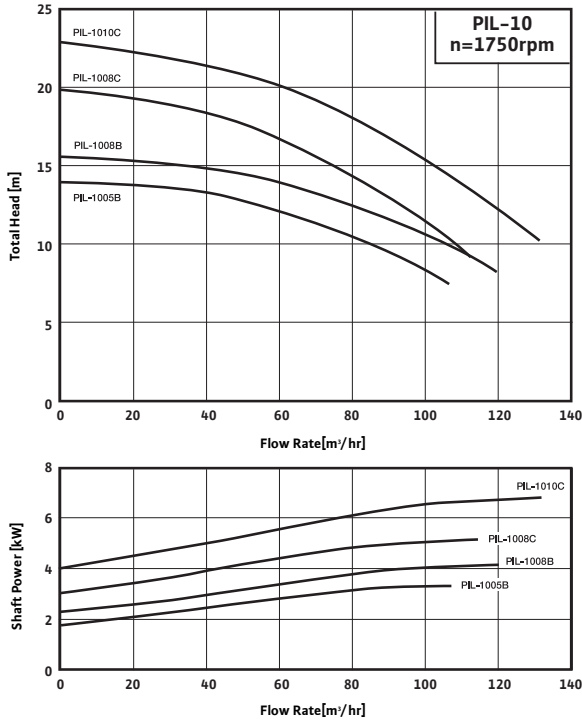
In-Line Pumps

PIL Series

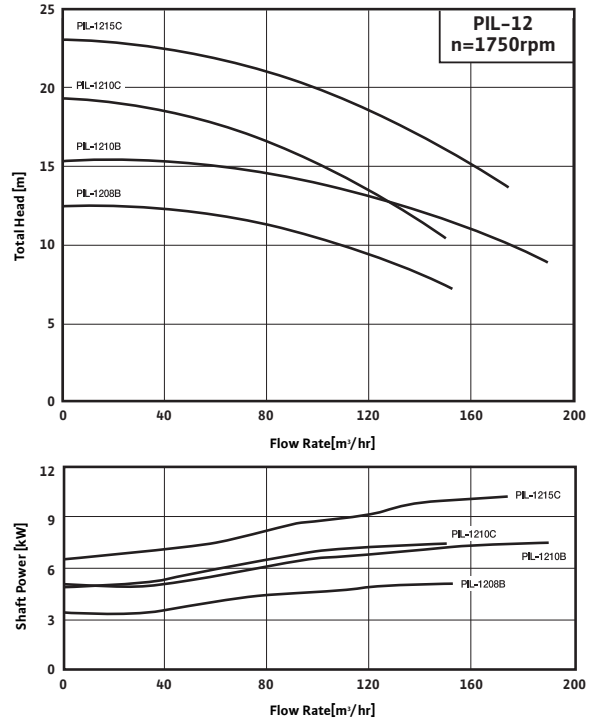
PIL Series

성능곡선

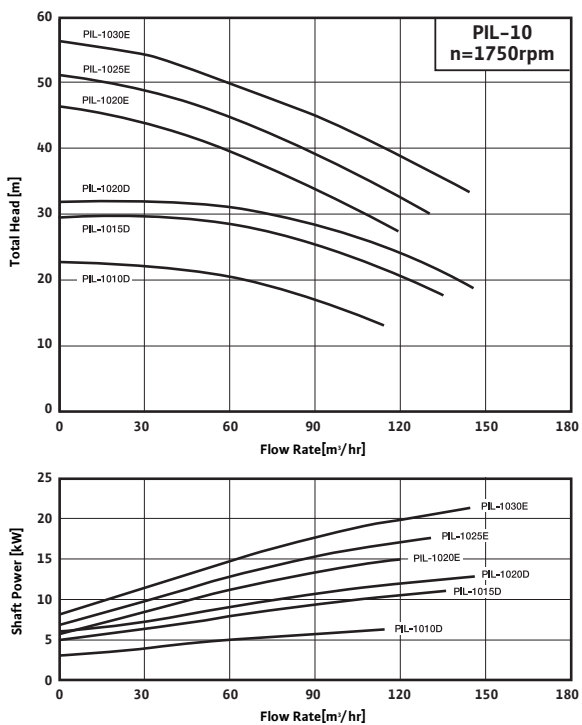
PIL- 1005B~PIL- 1010C



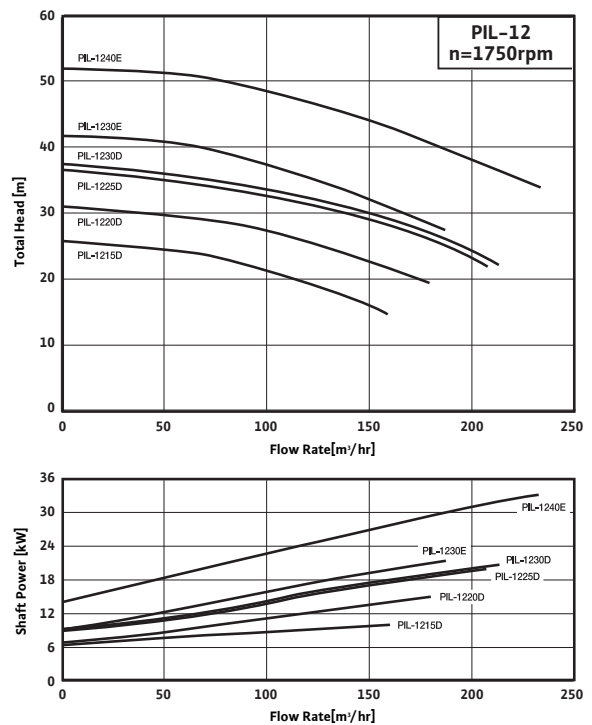
PIL- 1208B~PIL- 1215C



PIL- 1010D~PIL- 1030E

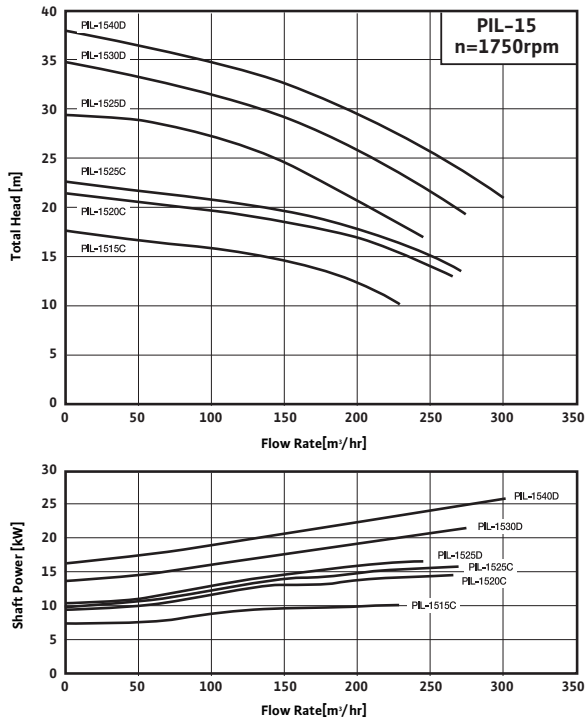


PIL- 1215D~PIL- 1240E

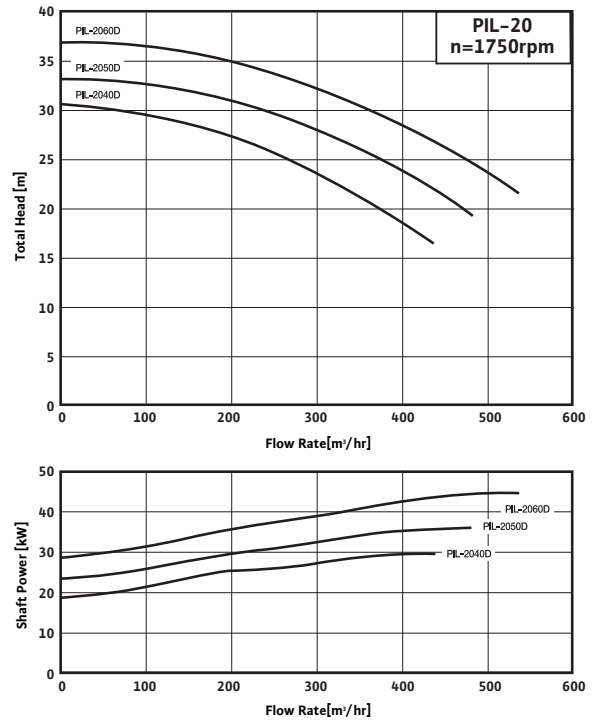


PIL Series 성능곡선

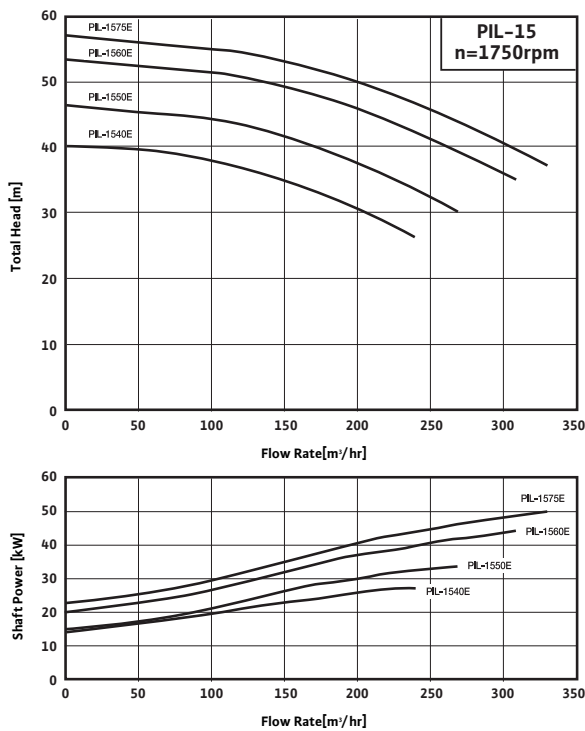
PIL- 1515C~PIL- 1540D



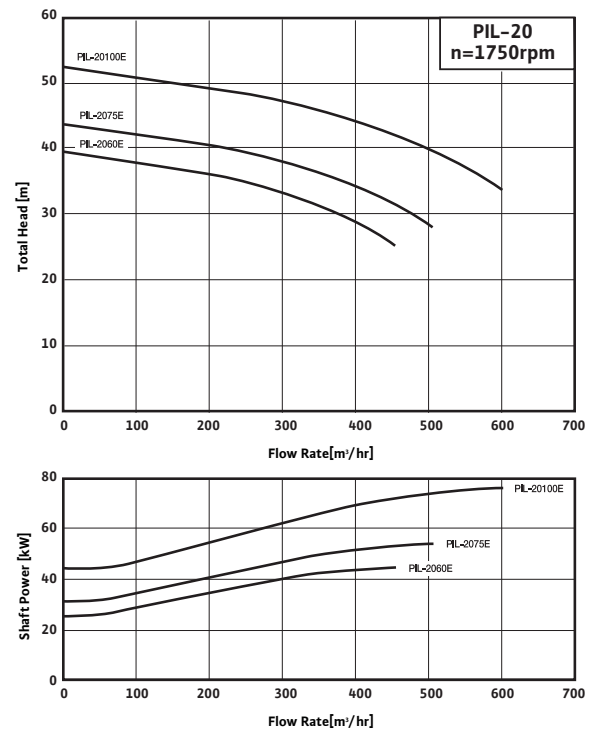
PIL- 2040D~PIL- 2060D



PIL- 1540E~PIL- 1575E



PIL- 2060E~PIL- 20100E



In-Line Pumps

PIN Series

PIN Series

제품 소개



MODEL	구경(mm)		동력 (HP)	유량 (m ³ /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

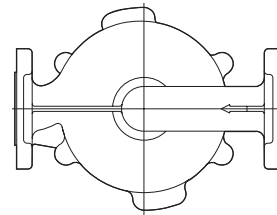
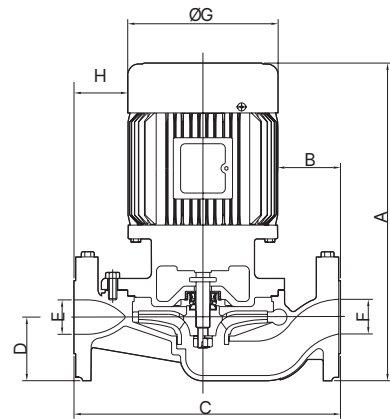
적용범위

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

특징

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

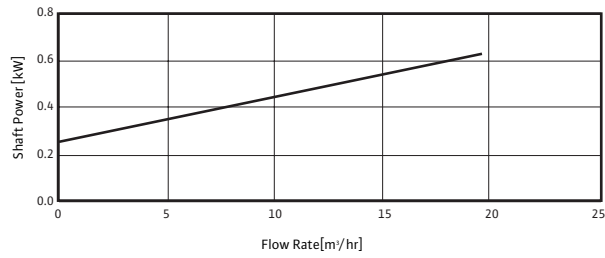
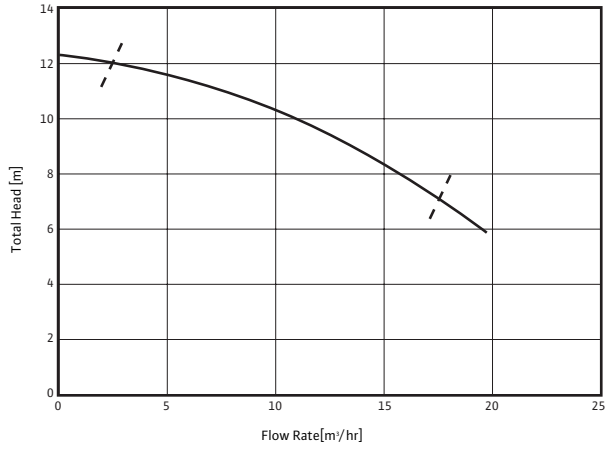
외형도



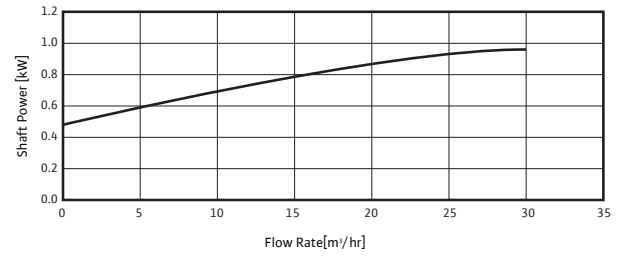
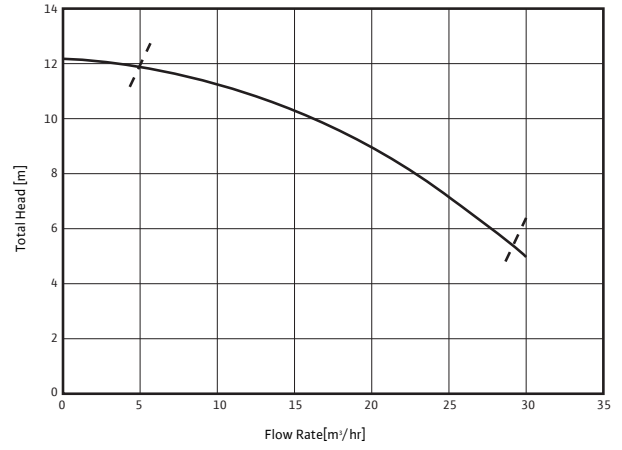
외형치수도											
MODEL	PHASE	OUTPUT	A	B	C	D	E	F	ØG	H	Fr. No
PIN-4001/5001	3상	0.75kW	377	70.5	310	76	Ø40	Ø40	175	60.5	80
PIN-5002/6502		1.5kW	437	71.5	330	77.5	Ø50	Ø50	192	61.5	90
PIN-6503/8003		2.2kW	506	70	380	87.5	Ø60	Ø60	235	70	100

PIN Series 성능곡선

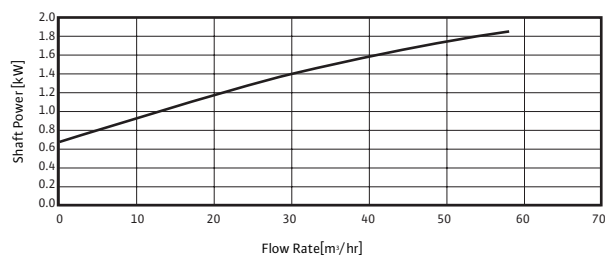
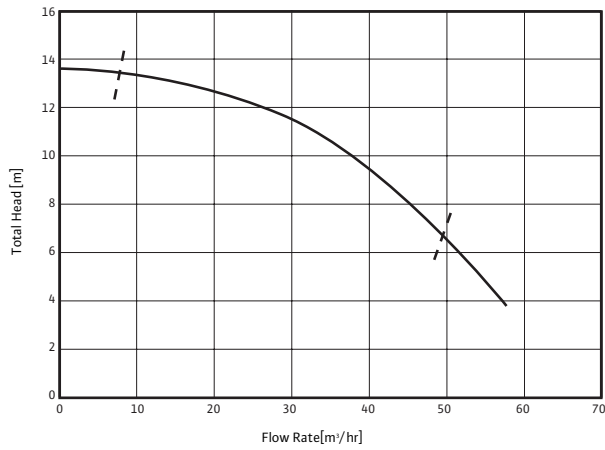
PIN- 4001/5001



PIN- 5002/6502



PIN- 6503/8003



wilo

본사 및 공장

부산광역시 강서구 미음산단
1로 46(구랑동)

영업본부

서울시 강남구 선릉로 514
성원빌딩 2층

광주사무소

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중흥S클래스 305호

안성물류창고

경기도 안성시 일죽면
방초리 10-1, 11

제품 구매 상담 및

서비스 문의
T 1688-5890

윌로펌프 통합서비스센터**서울북부·경기북부 지역**

북서울 T 02-953-0029
경기북부 T 031-911-8959

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경기동부 지역

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대전·충청 지역

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동대전 T 042-252-1478
충북 T 043-878-5894

서산·태안/당진 지역

서산 T 041-668-3013

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강릉 T 033-653-5550

대구·경북 지역

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서대구 T 053-522-6443
경북동부 T 054-272-9910

부산·울산·양산 지역

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부산(B) T 051-311-8819
울산 T 052-258-8818

창원·경남(서부) 지역

경남 T 055-288-8819
서경남 T 055-754-2666

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동광주 T 062-603-3019
전남동부 T 061-684-4774

전주·전북 지역

전북 T 063-282-4567

제주 지역

제주 T 064-756-4417
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