

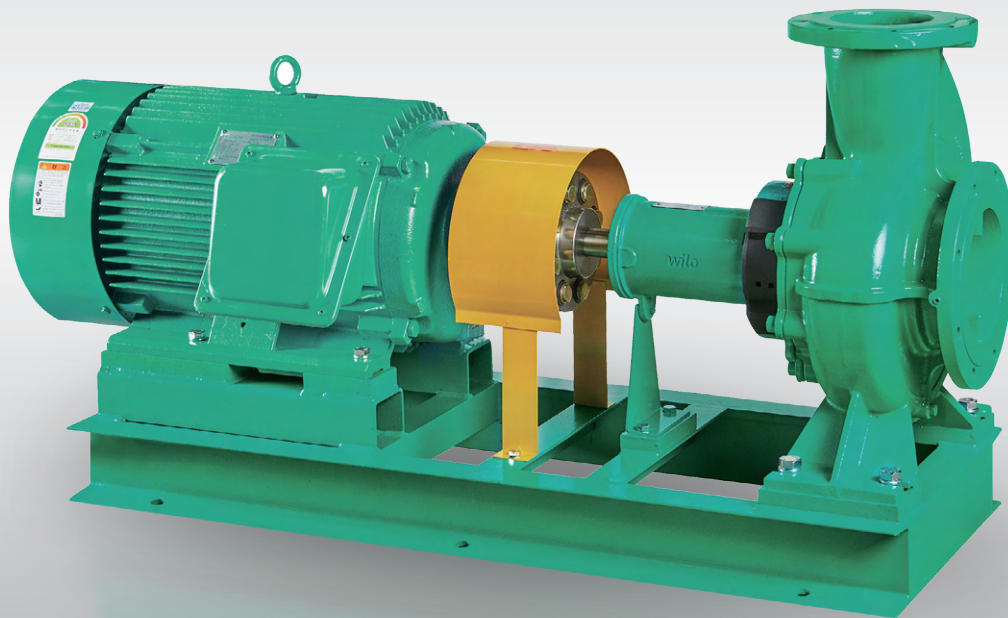
Pioneering for You

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산업용 제품 카탈로그

Norm and Multistage Pumps

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



윌로펌프(주)

2025 국가품질상
품질경쟁력우수기업





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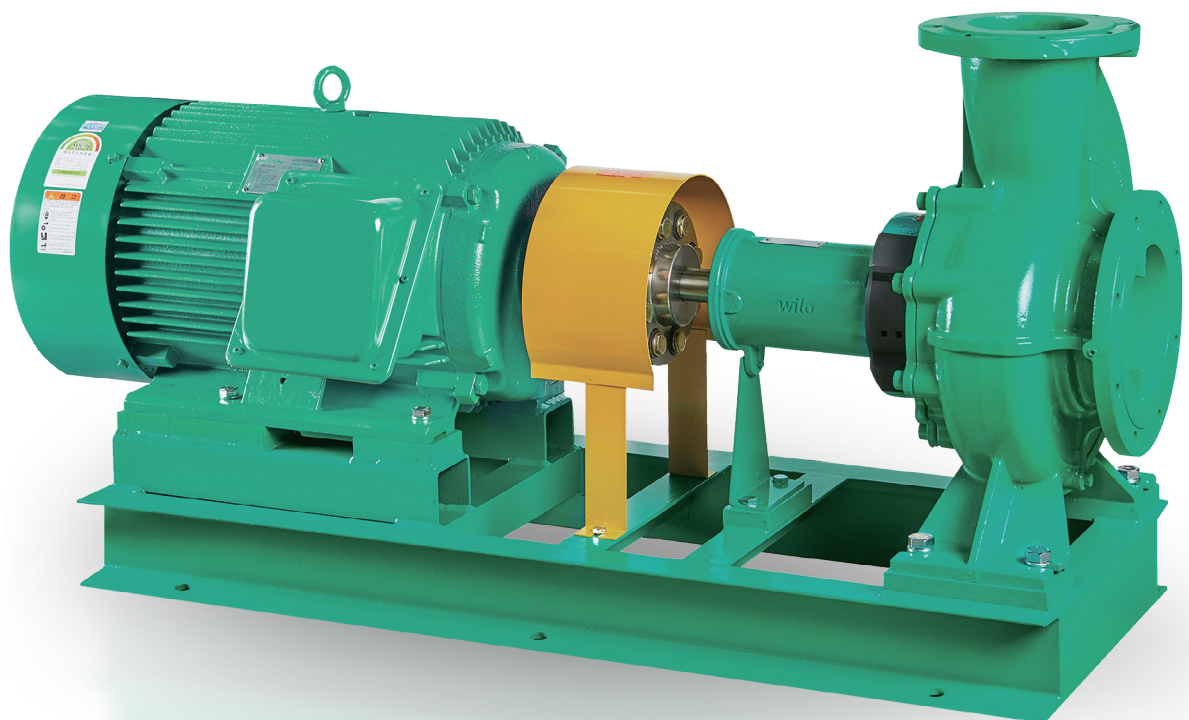
윌로펌프는 독일에 본사를 둔 세계적인 다국적 기업으로, 엔지니어링 우수성의 오랜 전통을 바탕으로 빌딩 서비스와 수처리, 반도체, 데이터센터, 에너지 산업 등 다양한 분야에서 수자원 공급, 폐수 처리, 난방 및 냉각 시스템 등 다양한 목적에 적합한 고성능 펌프를 제공하고 있습니다.

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

Norm and Multistage Pumps

- 04 __ 단단 벌루트 펌프(Atmos GIGA-N)
- 17 __ 단단 벌루트 펌프(PSV)
- 36 __ 대형 단단 벌루트 펌프(NLG)
- 43 __ 다단 펌프(PMT/PMV)
- 78 __ 볼텍스 펌프(PVH)
- 86 __ 웨스코 펌프(PSW)
- 89 __ 단단 블록 펌프(BL/PSC)
- 116 __ 프로세스 펌프(PCP)
- 119 __ MODEL 선정

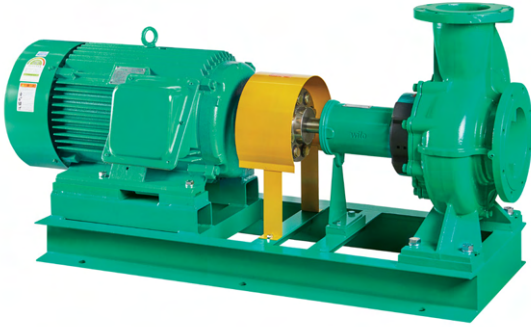


End Suction Pump

Wilo-Atmos GIGA-N Series

Atmos GIGA-N Series

제품소개



적용범위

- 맑은 액체용 - 청수
- 일반산업용 및 급수시설용
- 가정용수 공급용 및 빌딩 수처리용
- 관개용수용 및 발전소용
- 공기조화용 및 스프링클러용
- 냉각 또는 가열 순환용

구조 및 특징

- 임펠러 내의 액체의 흐름이 용이하도록 설계된 3차원 깃을 적용
- EN 12756의 치수에 준 한 Mechanical Seal 채택으로 장착이 쉽고 유지보수가 간편함
- 제품의 표준화 설계로 인하여 단일품목으로 광범위한 사용 영역을 보유
- Back pull-out 구조로 편리한 유지보수
- 토출부가 중앙상부에 위치하여 배관하중에 대한 안전성과 펌프 가동 시 Balance가 유지
- 유체 유동 해석을 통한 설계로 최적의 성능 실현

특장점

- 고효율 설계로 제작
- 높은 내구성
- EN 733 외형 치수에 준 한 설계로 국제적인 제품 호환성 확보
- 사용환경을 고려한 PN10(10 kgf/cm²) 적용 설계
- Mechanical Seal 표준 적용으로 최적의 제품 구성 실현
- Shaft Guard 표준 적용으로 고객의 사용 안전성 증가

End Suction Pump

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Atmos GIGA-N Series 제품 사양 및 모델명

취급액(0~100°C, pH6~8)

고온 또는 청수가 아닌 액을 취급할 경우에는 이송액의 특성 (온도, 농도, 고형물의 유·무)과 사용조건에 따라 내마모성, 내식성이 현저히 변화되는 경우가 있으므로 반드시 영업 또는 공장으로 문의

적용규격

- EN 733 : End-suction centrifugal pumps, rating with 10 bar with bearing bracket
- KS B 7501 : 소형 벌루트 펌프
- KS B 1511 : 철강제 관 플랜지의 기본 치수
- EN 1092-2 : Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 2 : Cast iron flanges

표준사양

- Pump Housing
축방향 흡입구와 수직방향 토출구를 가진 구조 적용
- EN 733에 따른 치수 및 구조 적용
- Flange규격 : KS B 1511의 10K
- 120°C 사용 가능 Mechanical Seal 적용
- Stainless Steel Shaft 표준 적용
- 사용자의 안전을 고려한 Shaft Guard 적용

주문사양 (Option)

- Flange : EN 1092-2의 PN 10
- 재질변경
Impeller - Bronze/Stainless Steel
- Working Pressure 16 bar : 별도 제품

모델명 부여기준 (MODEL)

Atmos GIGA-N125/315-75/4

- Atmos : 패밀리(Family)
- GIGA- : 시리즈(Series)
- N : 펌프 형식(Single Stage End Suction Volute Pump)
- 125 : 토출 구경(mm)
예 - 토출 125mm, 흡입 150mm
- /315 : 임펠러 공칭 외경(mm) - 125, 160, 200, 250, 315, 400
예-임펠러 공칭 외경 315mm
- -75 : 적용 전동기 동력(kW)
예-적용 전동기 75kW
- /4 : 적용 전동기 극수(Pole) - 2극, 4극, 6극
예-적용 전동기 극수 4극

치수				단위 : mm
대표 모델명 (Model)	흡입 구경 (DN inlet)	토출 구경 (DN outlet)	공칭 임펠러 외경 (Nominal Impeller Diameter)	
N40/250	65	40	250	
N50/160			160	
N50/200			200	
N50/250	80	65	250	
N65/200			200	
N65/250			250	
N65/315	100	80	315	
N80/200			200	
N80/250			250	
N80/315			315	
N80/400	125	100	400	
N100/160			160	
N100/200			200	
N100/250			250	
N100/315			315	
N100/400	150	125	400	
N125/200			200	
N125/250			250	
N125/315			315	
N125/400	200	150	400	
N150/200			200	
N150/250			250	
N150/315			315	
N150/400	400			

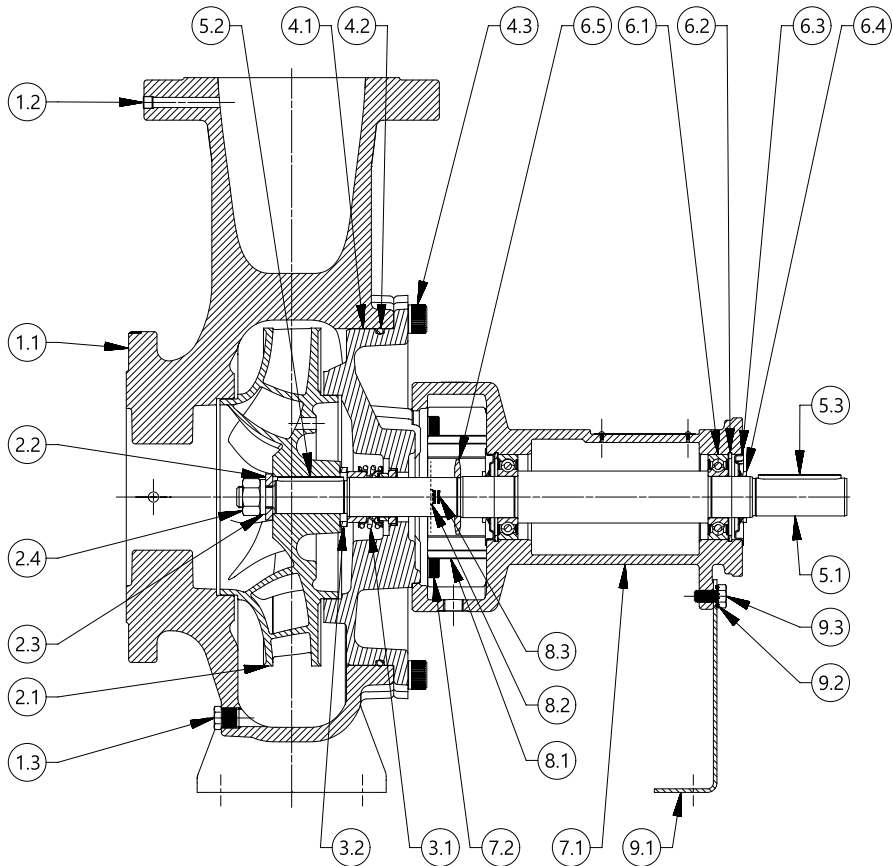
End Suction Pump

Wilo-Atmos GIGA-N Series

Atmos GIGA-N Series

단면도

단면도 (SECTIONAL DRAWING)



품번	품명	재질	수량
1.1	펌프하우징(Pump Housing)	GJL-250	1
1.2	플러그(Screw Plug)	-	2
1.3	육각 플러그(Hex Plug)	SM20C	2
2.1	임펠러(Impeller)	GJL-200	1
2.2	임펠러 와셔(Impeller Washer)	STS304	1
2.3	스프링 와셔(Spring Washer)	STS304	1
2.4	임펠러 너트(Impeller Nut)	STS304	1
3.1	기계식 실(Mechanical Seal)	-	1
3.2	스페이서 디스크(Spacer Disc)	1.4021	1
4.1	토출 커버(Discharge Cover)	GJL-250	1
4.2	O-링(O-Ring)	EPDM	1
4.3	소켓 볼트(Socket Bolt)	-	4/8/12
5.1	축(Shaft)	STS420J2	1
5.2	임펠러 키(Impeller Key)	SM45C	1

품번	품명	재질	수량
5.3	커플링 키(Coupling Key)	SM45C	1
6.1	볼 베어링(Ball Bearing)	-	2
6.2	C-링(C Ring)	SK5M	2
6.3	베어링 커버(Bearing Cover)	STS304	2
6.4	V-링(V-Ring)	NBR	2
6.5	디플렉터(Water Thrower)	EPDM	1
7.1	베어링 브라켓(Bearing Bracket)	GJL-250	1
7.2	소켓 볼트(Socket Bolt)	-	4
8.1	축 가드(Shaft Protection)	PP	2
8.2	평 와셔(Plain Washer)	SS400	2
8.3	소켓 볼트(Socket Bolt)	-	2
9.1	지지대(Support Foot)	S235JR	1
9.2	록 와셔(Serrated Lock Washer)	-	1
9.3	육각 볼트(Hexagon Bolt)	SM20C	1

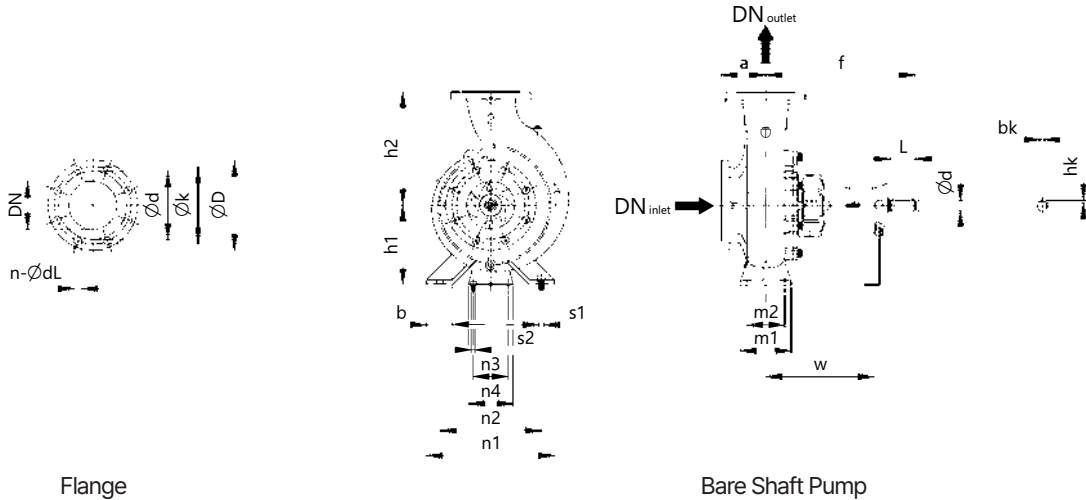
End Suction Pump

Wilo-Atmos GIGA-N Series



Atmos GIGA-N Series 외형도-Bare Shaft Pumps

외형도



Flange

Bare Shaft Pump

치수 - Bare Shaft Pumps 단위 : mm																					
Model	Bore size(mm)		Pump(mm)														Shaft(mm)		Key(mm)		Weight (kg)
	DN inlet	DN outlet	a	f	h1	h2	b	m1	m2	n1	n2	n3	n4	w	s1	s2	d	L	bk	hk	
N40/250	65	40	100	360	180	225	65	125	95	320	250	110	140	260	M12	M12	24	50	8	7	50
N50/160	65	50	100	360	160	180	50	100	70	265	212	110	140	260	M12	M12	24	50	8	7	37
N50/200	65	50	100	360	160	200	50	100	70	265	212	110	140	260	M12	M12	24	50	8	7	43
N50/250	65	50	100	360	180	225	65	125	95	320	250	110	140	260	M12	M12	24	50	8	7	51
N65/200	80	65	100	360	180	225	65	125	95	320	250	110	140	260	M12	M12	24	50	8	7	47
N65/250	80	65	100	470	200	250	80	160	120	360	280	110	140	340	M16	M12	32	80	10	8	70
N65/315	80	65	125	470	225	280	80	160	120	400	315	110	140	340	M16	M12	32	80	10	8	91
N80/200	100	80	125	470	180	250	65	125	95	345	280	110	140	340	M12	M12	32	80	10	8	61
N80/250	100	80	125	470	200	280	80	160	120	400	315	110	140	340	M16	M12	32	80	10	8	75
N80/315	100	80	125	470	250	315	80	160	120	400	315	110	140	340	M16	M12	32	80	10	8	98
N80/400	100	80	125	530	280	355	80	160	120	435	355	110	140	370	M16	M12	42	110	12	8	147
N100/160	125	100	125	470	200	280	80	160	120	360	280	110	140	340	M16	M12	32	80	10	8	63
N100/200	125	100	125	470	200	280	80	160	120	360	280	110	140	340	M16	M12	32	80	10	8	70
N100/250	125	100	140	470	225	280	80	160	120	400	315	110	140	340	M16	M12	32	80	10	8	84
N100/315	125	100	140	470	250	315	80	160	120	400	315	110	140	340	M16	M12	32	80	10	8	111
N100/400	125	100	140	530	280	355	100	200	150	500	400	110	140	370	M20	M12	42	110	12	8	154
N125/200	150	125	140	470	250	315	80	160	120	400	315	110	140	340	M16	M12	32	80	10	8	87
N125/250	150	125	140	470	250	355	80	160	120	400	315	110	140	340	M16	M12	32	80	10	8	100
N125/315	150	125	140	530	280	355	100	200	150	500	400	110	140	370	M20	M12	42	110	12	8	136
N125/400	150	125	140	530	315	400	100	200	150	500	400	110	140	370	M20	M12	42	110	12	8	187
N150/200	200	150	160	470	280	400	100	200	150	550	450	110	140	340	M16	M12	32	80	10	8	107
N150/250	200	150	160	530	280	375	100	200	150	500	400	110	140	370	M20	M12	42	110	12	8	135
N150/315	200	150	160	530	280	400	100	200	150	550	450	110	140	370	M20	M12	42	110	12	8	151
N150/400	200	150	160	530	315	450	100	200	150	550	450	110	140	370	M20	M12	42	110	12	8	204

치수 - Flange (KS 10kgf/cm ²) 단위 : mm							
Bore	DN	Ød	Øk	ØD	n	ØdL	Bolt
40	40	81	105	145	4	19	M16
50	50	96	120	160	4	19	M16
65	65	116	140	180	4	19	M16
80	80	128	150	190	8	19	M16
100	100	152	175	215	8	19	M16
125	125	182	210	250	8	23	M20
150	150	212	240	280	8	23	M20
200	200	262	290	335	12	23	M20

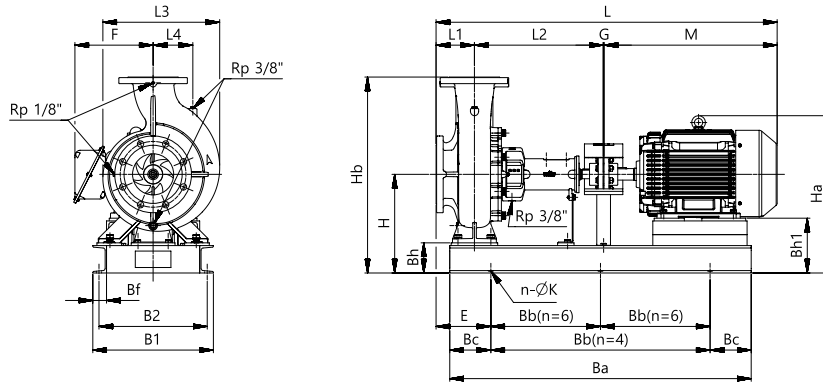
End Suction Pump

Wilo-Atmos GIGA-N Series

Atmos GIGA-N Series

외형도

외형도



• Motor 관련 형상 및 Terminal Box의 위치는 Motor제 조 업체에 따라 달라질 수 있음

치수		60Hz-4Pole																								
MODEL	MOTOR (kW)	BORE(mm)		PUMP & MOTOR(mm)										BED ASSEMBLY(mm)						WEIGHT(kg)						
		DN inlet	DN outlet	L	L1	L2	L3	L4	E	F	G	M	H	Ha	Hb	Ba	Bb	Bc	Bf	B1	B2	Bh	Bh1	n - ØK	P-B	P-B-M
N40/250-0.75/4	0.75	65	40	727	100	360	340	90	127.5	148	3	264	265	353	490	650	450	100	40	350	315	85	185	4 - 15	77	95
N40/250-1.5/4	1.5	65	40	781	100	360	340	90	152.5	158	3	318	265	361	490	750	500	125	40	350	315	85	175	4 - 15	82	107
N40/250-2.2/4	2.2	65	40	820	100	360	340	90	177.5	171	3	357	265	408	490	800	500	150	40	350	315	85	165	4 - 15	83	117
N40/250-3.7/4	3.7	65	40	833	100	360	340	90	152.5	180	3	370	265	427	490	750	500	125	40	350	315	85	153	4 - 15	81	126
N40/250-5.5/4	5.5	65	40	910	100	360	340	90	177.5	220	3	447	265	444	490	850	550	150	40	350	315	85	133	4 - 15	84	152
N40/250-7.5/4	7.5	65	40	910	100	360	340	90	177.5	220	3	447	265	444	490	850	550	150	40	350	315	85	133	4 - 15	84	166
N50/160-1.5/4	1.5	65	50	781	100	360	247	95	165	158	3	318	245	341	425	750	500	125	40	350	315	85	155	4 - 15	67	92
N50/160-2.2/4	2.2	65	50	820	100	360	247	95	185	171	3	357	245	388	425	800	500	150	40	350	315	85	145	4 - 15	69	103
N50/160-3.7/4	3.7	65	50	833	100	360	247	95	165	180	3	370	245	407	425	750	500	125	40	350	315	85	133	4 - 15	66	111
N50/200-2.2/4	2.2	65	50	820	100	360	308	100	185	171	3	357	245	388	445	800	500	150	40	350	315	85	145	4 - 15	75	109
N50/200-3.7/4	3.7	65	50	833	100	360	308	100	165	180	3	370	245	407	445	750	500	125	40	350	315	85	133	4 - 15	72	117
N50/200-5.5/4	5.5	65	50	910	100	360	308	100	180	220	3	447	245	424	445	800	500	150	40	350	315	85	113	4 - 15	76	144
N50/250-3.7/4	3.7	65	50	833	100	360	348	100	147.5	180	3	370	265	427	490	740	500	120	40	350	315	85	153	4 - 15	82	127
N50/250-5.5/4	5.5	65	50	910	100	360	348	100	177.5	220	3	447	265	444	490	850	550	150	40	350	315	85	133	4 - 15	85	153
N50/250-7.5/4	7.5	65	50	949	100	360	348	100	177.5	220	3	486	265	444	490	850	550	150	40	350	315	85	133	4 - 15	85	167
N50/250-11/4	11	65	50	1058	100	360	348	100	202.5	265	3	595	265	475	490	950	600	175	40	350	315	85	105	4 - 15	92	209
N65/200-1.5/4	1.5	80	65	781	100	360	301	107	152.5	158	3	318	265	361	490	750	500	125	40	350	315	85	175	4 - 15	79	104
N65/200-2.2/4	2.2	80	65	820	100	360	301	107	177.5	171	3	357	265	408	490	800	500	150	40	350	315	85	165	4 - 15	80	114
N65/200-3.7/4	3.7	80	65	833	100	360	301	107	152.5	180	3	370	265	427	490	750	500	125	40	350	315	85	153	4 - 15	79	124
N65/200-5.5/4	5.5	80	65	910	100	360	301	107	177.5	220	3	447	265	444	490	850	550	150	40	350	315	85	133	4 - 15	81	149
N65/200-7.5/4	7.5	80	65	949	100	360	301	107	177.5	220	3	486	265	444	490	850	550	150	40	350	315	85	133	4 - 15	81	163
N65/200-11/4	11	80	65	1058	100	360	301	107	202.5	265	3	595	265	475	490	950	600	175	40	350	315	85	105	4 - 15	88	205
N65/250-3.7/4	3.7	80	65	943	100	470	380	108	185	180	3	370	285	447	535	900	550	175	40	410	375	85	173	4 - 15	108	153
N65/250-5.5/4	5.5	80	65	1020	100	470	380	108	185	220	3	447	285	464	535	950	600	175	40	410	375	85	153	4 - 15	109	177
N65/250-7.5/4	7.5	80	65	1059	100	470	380	108	185	220	3	486	285	464	535	950	600	175	40	410	375	85	153	4 - 15	109	191
N65/250-11/4	11	80	65	1168	100	470	380	108	160	265	3	595	310	520	560	1100	400	150	50	440	395	110	150	6 - 19	123	240
N65/250-15/4	15	80	65	1212	100	470	380	108	160	265	3	639	310	520	560	1100	400	150	50	440	395	110	150	6 - 19	123	263
N65/315-7.5/4	7.5	80	65	1084	125	470	454	120	210	220	3	486	335	514	615	950	600	175	50	440	395	110	203	4 - 19	137	219
N65/315-11/4	11	80	65	1193	125	470	454	120	185	265	3	595	335	545	615	1100	400	150	50	440	395	110	175	6 - 19	145	262
N65/315-15/4	15	80	65	1237	125	470	454	120	185	265	3	639	335	545	615	1100	400	150	50	440	395	110	175	6 - 19	145	285
N65/315-18.5/4	18.5	80	65	1243	125	470	454	120	185	297	3	645	335	581	615	1150	425	150	50	440	395	110	155	6 - 19	149	334
N65/315-22/4	22	80	65	1243	125	470	454	120	185	297	3	645	335	581	615	1150	425	150	50	440	395	110	155	6 - 19	149	349
N65/315-30/4	30	80	65	1272	125	470	454	120	185	297	4	673	335	581	615	1150	425	150	50	440	395	110	155	6 - 19	153	388
N80/200-3.7/4	3.7	100	80	968	125	470	337	125	227.5	180	3	370	265	427	515	900	550	175	40	410	375	85	153	4 - 15	96	141
N80/200-5.5/4	5.5	100	80	1045	125	470	337	125	220	220	3	447	265	444	515	1000	660	170	40	470	440	85	133	4 - 15	100	168
N80/200-7.5/4	7.5	100	80	1084	125	470	337	125	220	220	3	486	265	444	515	1000	660	170	40	470	440	85	133	4 - 15	100	182
N80/200-11/4	11	100	80	1193	125	470	337	125	277.5	265	3	595	290	500	540	1050	600	225	50	440	395	110	130	4 - 19	110	227
N80/200-15/4	15	100	80	1237	125	470	337	125	277.5	265	3	639	290	500	540	1050	600	225	50	440	395	110	130	4 - 19	110	250
N80/250-5.5/4	5.5	100	80	1045	125	470	406	117	210	220	3	447	285	464	565	950	600	175	40	420	385	85	153	4 - 15	114	182
N80/250-7.5/4	7.5	100	80	1084	125	470	406	117	210	220	3	486	285	464	565	950	600	175	40	420	385	85	153	4 - 15	114	196
N80/250-11/4	11	100	80	1193	125	470	406	117	185	265	3	595	310	520	590	1100	400	150	50	440	395	110	150	6 - 19	127	244
N80/250-15/4	15	100	80	1237	125	470	406	117	185	265	3	639	310	520	590	1100	400	150	50	440	395	110	150	6 - 19	127	267
N80/250-18.5/4	18.5	100	80	1243	125	470	406	117	190	297	3	645	310	556	590	1100	400	150	50	440	395	110	130	6 - 19	127	312
N80/250-22/4	22	100	80	1243	125	470	406	117	190	297	3	645	310	556	590	1100	400	150	50	440	395	110	130	6 - 19	127	327

* Motor 관련 치수는 Motor제 조 업체에 따라 달라질 수 있음(하이젠 모터 기준 치수)

P-B: 모터제외중량 / P-B-M: 모터포함중량

* 'F' 치수가 없는 경우 - Motor Terminal Box가 상부에 위치
- 'Ha' 치수는 Motor Terminal Box 상부까지의 치수

End Suction Pump

Wilo-Atmos GIGA-N Series



Atmos GIGA-N Series 치수

치수		60Hz-4Pole																								
MODEL	MOTOR (kW)	BORE(mm)		PUMP & MOTOR(mm)												BED ASSEMBLY(mm)						WEIGHT(kg)				
		DN inlet	DN outlet	L	L1	L2	L3	L4	E	F	G	M	H	Ha	Hb	Ba	Bb	Bc	Bf	B1	B2	Bh	Bh1	n - ØK	P-B	P-BM
N80/315-11/4	11	100	80	1193	125	470	483	132	185	265	3	595	360	570	675	1100	400	150	50	440	395	110	200	6 - 19	155	272
N80/315-15/4	15	100	80	1237	125	470	483	132	185	265	3	639	360	570	675	1100	400	150	50	440	395	110	200	6 - 19	155	295
N80/315-18.5/4	18.5	100	80	1243	125	470	483	132	185	297	3	645	360	606	675	1150	425	150	50	440	395	110	180	6 - 19	160	345
N80/315-22/4	22	100	80	1243	125	470	483	132	185	297	3	645	360	606	675	1150	425	150	50	440	395	110	180	6 - 19	160	360
N80/315-30/4	30	100	80	1272	125	470	483	132	185	297	4	673	360	606	675	1150	425	150	50	440	395	110	180	6 - 19	164	399
N80/315-37/4	37	100	80	1419	125	470	483	132	185	366	4	820	362	631	677	1300	500	150	50	440	395	112	162	6 - 19	175	455
N80/315-45/4	45	100	80	1419	125	470	483	132	185	366	4	820	362	631	677	1300	500	150	50	440	395	112	162	6 - 19	175	480
N80/400-30/4	30	100	80	1332	125	530	556	163	185	297	4	673	392	638	747	1200	450	150	50	480	435	112	212	6 - 19	223	458
N80/400-37/4	37	100	80	1479	125	530	556	163	185	366	4	820	417	686	772	1300	500	150	65	510	450	137	217	6 - 23	242	522
N100/160-3.7/4	3.7	125	100	968	125	470	310	140	210	180	3	370	285	447	565	900	550	175	40	410	375	85	173	4 - 15	101	146
N100/160-5.5/4	5.5	125	100	1045	125	470	310	140	210	220	3	447	285	464	565	950	600	175	40	410	375	85	153	4 - 15	102	170
N100/160-7.5/4	7.5	125	100	1084	125	470	310	140	210	220	3	486	285	464	565	950	600	175	40	410	375	85	153	4 - 15	102	184
N100/200-5.5/4	5.5	125	100	1045	125	470	365	125	210	220	3	447	285	464	565	950	600	175	40	410	375	85	153	4 - 15	109	177
N100/200-7.5/4	7.5	125	100	1084	125	470	365	125	210	220	3	486	285	464	565	950	600	175	40	410	375	85	153	4 - 15	109	191
N100/200-11/4	11	125	100	1193	125	470	365	125	185	265	3	595	310	520	590	1100	400	150	50	440	395	110	150	6 - 19	123	240
N100/200-15/4	15	125	100	1237	125	470	365	125	185	265	3	639	310	520	590	1100	400	150	50	440	395	110	150	6 - 19	123	263
N100/250-11/4	11	125	100	1208	140	470	411	137	200	265	3	595	335	545	615	1100	400	150	50	440	395	110	175	6 - 19	138	255
N100/250-15/4	15	125	100	1252	140	470	411	137	200	265	3	639	335	545	615	1100	400	150	50	440	395	110	175	6 - 19	138	278
N100/250-18.5/4	18.5	125	100	1258	140	470	411	137	200	297	3	645	335	581	615	1150	425	150	50	440	395	110	155	6 - 19	142	327
N100/250-22/4	22	125	100	1258	140	470	411	137	200	297	3	645	335	581	615	1150	425	150	50	440	395	110	155	6 - 19	142	342
N100/250-30/4	30	125	100	1287	140	470	411	137	200	297	4	673	335	581	615	1150	425	150	50	440	395	110	155	6 - 19	146	381
N100/250-37/4	37	125	100	1434	140	470	411	137	200	366	4	820	337	606	617	1300	500	150	50	440	395	112	137	6 - 19	159	439
N100/315-18.5/4	18.5	125	100	1258	140	470	486	141	200	297	3	645	360	606	675	1150	425	150	50	440	395	110	180	6 - 19	173	358
N100/315-22/4	22	125	100	1258	140	470	486	141	200	297	3	645	360	606	675	1150	425	150	50	440	395	110	180	6 - 19	173	373
N100/315-30/4	30	125	100	1287	140	470	486	141	200	297	4	673	360	606	675	1150	425	150	50	440	395	110	180	6 - 19	177	412
N100/315-37/4	37	125	100	1434	140	470	486	141	200	366	4	820	362	631	677	1300	500	150	50	440	395	112	162	6 - 19	188	468
N100/315-45/4	45	125	100	1434	140	470	486	141	200	366	4	820	362	631	677	1300	500	150	50	440	395	112	162	6 - 19	188	493
N100/315-55/4	55	125	100	1439	140	470	486	141	175	400	4	825	362	647	677	1250	500	125	50	480	435	112	137	6 - 19	188	573
N100/400-37/4	37	125	100	1494	140	530	556	165	180	366	4	820	435	704	790	1400	550	150	65	560	500	155	235	6 - 23	275	555
N100/400-45/4	45	125	100	1494	140	530	556	165	180	366	4	820	435	704	790	1400	550	150	65	560	500	155	235	6 - 23	275	580
N100/400-55/4	55	125	100	1499	140	530	556	165	155	400	4	825	435	720	790	1350	550	125	65	560	500	155	210	6 - 23	271	656
N125/200-11/4	11	150	125	1208	140	470	404	150	200	265	3	595	360	570	675	1100	400	150	50	440	395	110	200	6 - 19	144	261
N125/200-15/4	15	150	125	1252	140	470	404	150	200	265	3	639	360	570	675	1100	400	150	50	440	395	110	200	6 - 19	144	284
N125/200-18.5/4	18.5	150	125	1258	140	470	404	150	200	297	3	645	360	606	675	1150	425	150	50	440	395	110	180	6 - 19	149	334
N125/200-22/4	22	150	125	1258	140	470	404	150	200	297	3	645	360	606	675	1150	425	150	50	440	395	110	180	6 - 19	149	349
N125/200-30/4	30	150	125	1287	140	470	404	150	200	297	4	673	360	606	675	1150	425	150	50	440	395	110	180	6 - 19	153	388
N125/250-11/4	11	150	125	1208	140	470	427	145	200	265	3	595	360	570	715	1100	400	150	50	440	395	110	200	6 - 19	157	274
N125/250-15/4	15	150	125	1252	140	470	427	145	200	265	3	639	360	570	715	1100	400	150	50	440	395	110	200	6 - 19	157	297
N125/250-18.5/4	18.5	150	125	1258	140	470	427	145	200	297	3	645	360	606	715	1150	425	150	50	440	395	110	180	6 - 19	161	346
N125/250-22/4	22	150	125	1258	140	470	427	145	200	297	3	645	360	606	715	1150	425	150	50	440	395	110	180	6 - 19	161	361
N125/250-30/4	30	150	125	1287	140	470	427	145	200	297	4	673	360	606	715	1150	425	150	50	440	395	110	180	6 - 19	165	400
N125/250-37/4	37	150	125	1434	140	470	427	145	200	366	4	820	362	631	717	1300	500	150	50	440	395	112	162	6 - 19	177	457
N125/250-45/4	45	150	125	1434	140	470	427	145	200	366	4	820	362	631	717	1300	500	150	50	440	395	112	162	6 - 19	177	482
N125/315-22/4	22	150	125	1318	140	530	502	160	180	297	3	645	395	641	750	1300	500	150	50	560	515	115	215	6 - 19	223	423
N125/315-30/4	30	150	125	1347	140	530	502	160	180	297	4	673	395	641	750	1300	500	150	50	560	515	115	215	6 - 19	227	462
N125/315-37/4	37	150	125	1494	140	530	502	160	180	366	4	820	435	704	790	1400	550	150	65	560	500	155	235	6 - 23	260	540
N125/315-45/4	45	150	125	1494	140	530	502	160	180	366	4	820	435	704	790	1400	550	150	65	560	500	155	235	6 - 23	260	565
N125/315-55/4	55	150	125	1499	140	530	502	160	155	400	4	825	435	720	790	1350	550	125	65	560	500	155	210	6 - 23	255	640
N125/315-75/4	75	150	125	1584	140	530	502	160	205	440	4	910	435	695	790	1450	550	175	65	560	500	155	185	6 - 23	288	768
N125/400-45/4	45	150	125	1494	140	530	596	170	180	366	4	820	470	739	870	1400	550	150	65	560	500	155	270	6 - 23	316	621
N125/400-55/4	55	150	125	1499	140	530	596	170	135	400	4	825	450	735	850	1350	550	125	65	570	505	135	225	6 - 23	289	674
N150/400-75/4	75	150	125	1584	140	530	596	170	185	440	4															

End Suction Pump

Wilo-Atmos GIGA-N Series

Atmos GIGA-N Series

기술 자료

Bearing Bracket Data

Model	Bearing Bracket Type	Bearing No.		Mechanical Seal Size(mm)	Key Size(mm)	
		Thrust	Radial		at Impeller	at Coupling
N40/250	BB1	6205ZZC3	6205ZZC3	Ø24	6×6×36	8×7×45
N50/160	BB1	6205ZZC3	6205ZZC3	Ø24	6×6×36	8×7×45
N50/200	BB1	6205ZZC3	6205ZZC3	Ø24	6×6×36	8×7×45
N50/250	BB1	6205ZZC3	6205ZZC3	Ø24	6×6×36	8×7×45
N65/200	BB1	6205ZZC3	6205ZZC3	Ø24	6×6×36	8×7×45
N65/250	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N65/315	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N80/200	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N80/250	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N80/315	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N80/400	BB3	6310ZZC3	6310ZZC3	Ø45	12×8×70	12×8×100
N100/160	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N100/200	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N100/250	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N100/315	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N100/400	BB3	6310ZZC3	6310ZZC3	Ø45	12×8×70	12×8×100
N125/200	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N125/250	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N125/315	BB3	6310ZZC3	6310ZZC3	Ø45	12×8×70	12×8×100
N125/400	BB3	6310ZZC3	6310ZZC3	Ø45	12×8×70	12×8×100
N150/200	BB2	6207ZZC3	6207ZZC3	Ø32	8×7×56	10×8×70
N150/250	BB3	6310ZZC3	6310ZZC3	Ø45	12×8×70	12×8×100
N150/315	BB3	6310ZZC3	6310ZZC3	Ø45	12×8×70	12×8×100
N150/400	BB3	6310ZZC3	6310ZZC3	Ø45	12×8×70	12×8×100

Shaft Data

Model	Bearing Bracket Type	Shaft Diameter(mm)				Span between(mm)	
		at Impeller	at M/Seal	between Bearings	at Coupling	Thrust Bearing and Impeller	Bearings
N40/250	BB1	Ø20	Ø24	Ø32	Ø24	153	129
N50/160	BB1	Ø20	Ø24	Ø32	Ø24	149	129
N50/200	BB1	Ø20	Ø24	Ø32	Ø24	149	129
N50/250	BB1	Ø20	Ø24	Ø32	Ø24	157	129
N65/200	BB1	Ø20	Ø24	Ø32	Ø24	154	129
N65/250	BB2	Ø28	Ø32	Ø44	Ø32	176	178
N65/315	BB2	Ø28	Ø32	Ø44	Ø32	176	178
N80/200	BB2	Ø28	Ø32	Ø44	Ø32	179	178
N80/250	BB2	Ø28	Ø32	Ø44	Ø32	180	178
N80/315	BB2	Ø28	Ø32	Ø44	Ø32	182	178
N80/400	BB3	Ø38	Ø45	Ø59	Ø42	191	187
N100/160	BB2	Ø28	Ø32	Ø44	Ø32	183	178
N100/200	BB2	Ø28	Ø32	Ø44	Ø32	186	178
N100/250	BB2	Ø28	Ø32	Ø44	Ø32	188	178
N100/315	BB2	Ø28	Ø32	Ø44	Ø32	188	178
N100/400	BB3	Ø38	Ø45	Ø59	Ø42	203	187
N125/200	BB2	Ø28	Ø32	Ø44	Ø32	180	178
N125/250	BB2	Ø28	Ø32	Ø44	Ø32	183	178
N125/315	BB3	Ø38	Ø45	Ø59	Ø42	185	187
N125/400	BB3	Ø38	Ø45	Ø59	Ø42	193	187
N150/200	BB2	Ø28	Ø32	Ø44	Ø32	192	178
N150/250	BB3	Ø38	Ø45	Ø59	Ø42	197	187
N150/315	BB3	Ø38	Ø45	Ø59	Ø42	203	187
N150/400	BB3	Ø38	Ø45	Ø59	Ø42	202	187

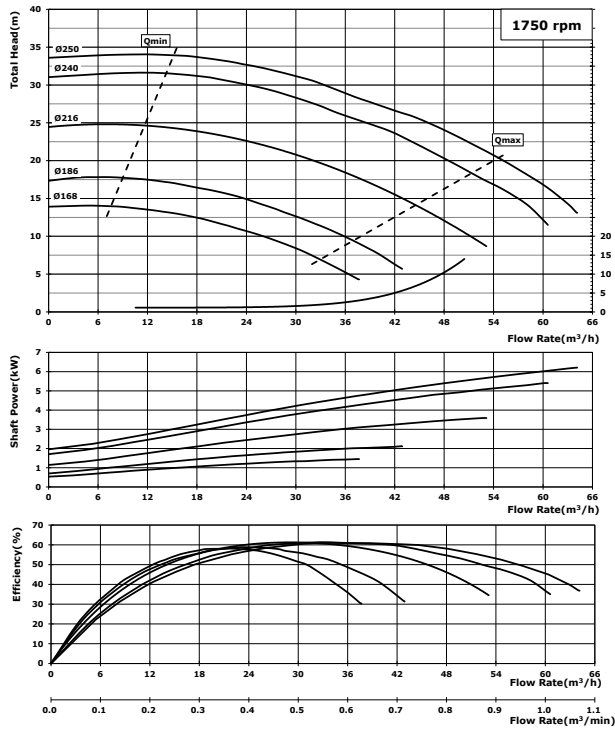
End Suction Pump

Wilo-Atmos GIGA-N Series

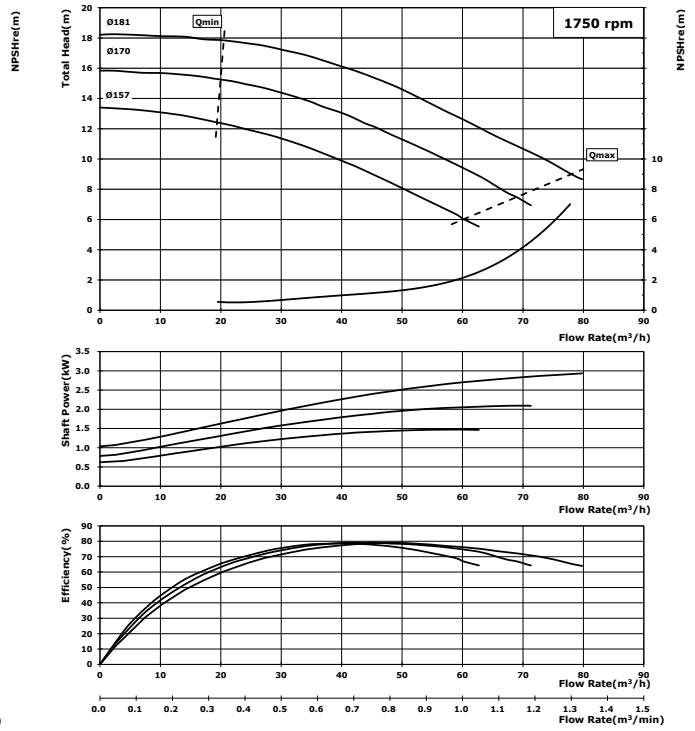


Atmos GIGA-N Series 성능 곡선 4pole

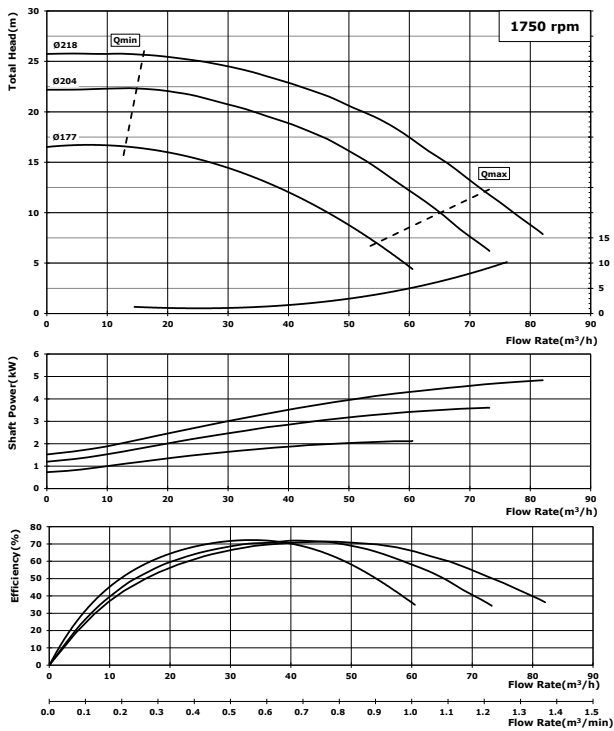
Atmos GIGA-N40/250



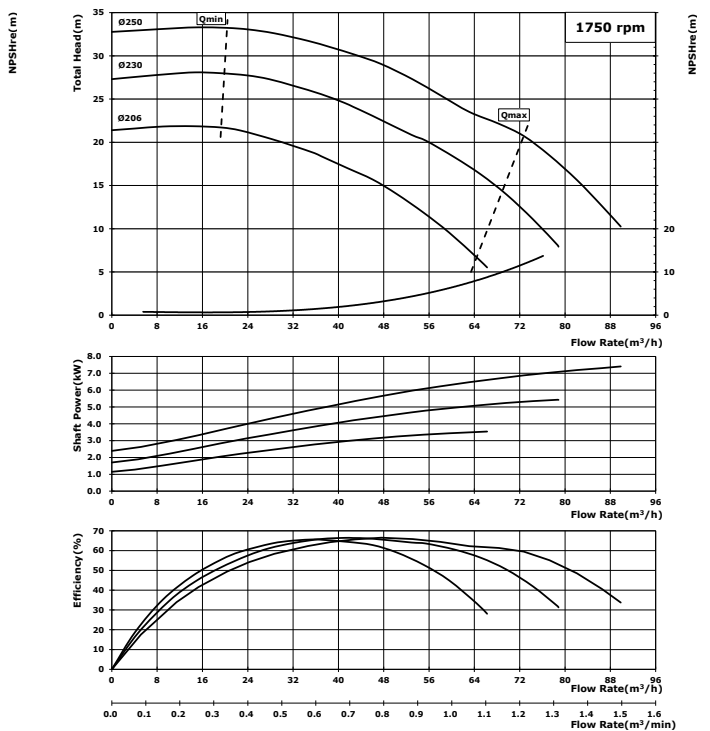
Atmos GIGA-N50/160



Atmos GIGA-N50/200



Atmos GIGA-N50/250



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

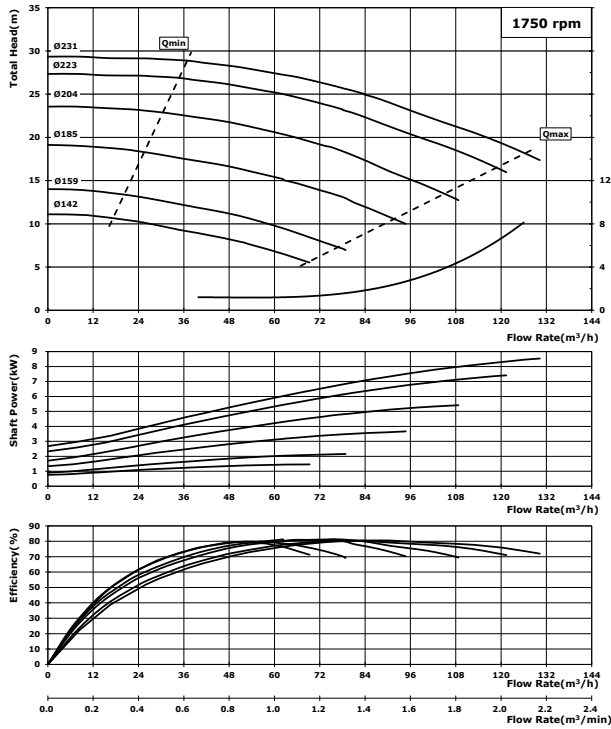
End Suction Pump

Wilo-Atmos GIGA-N Series

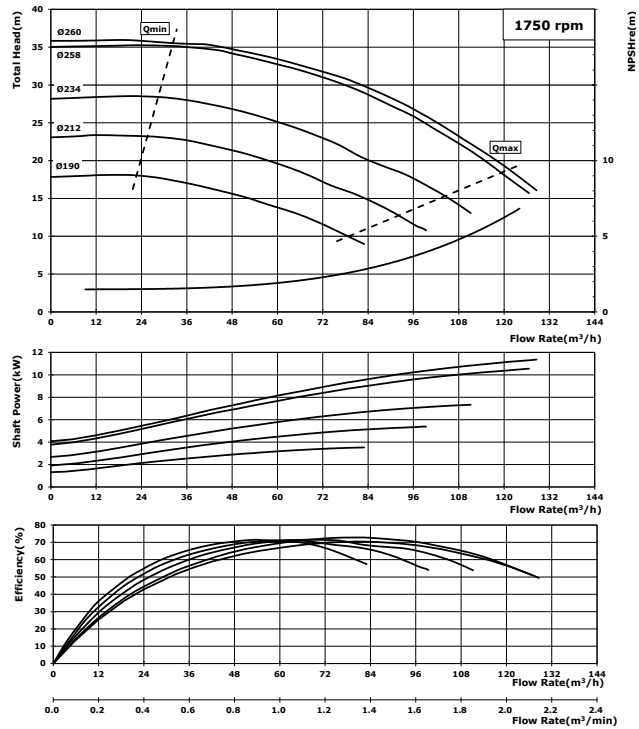
Atmos GIGA-N Series

성능 곡선 4pole

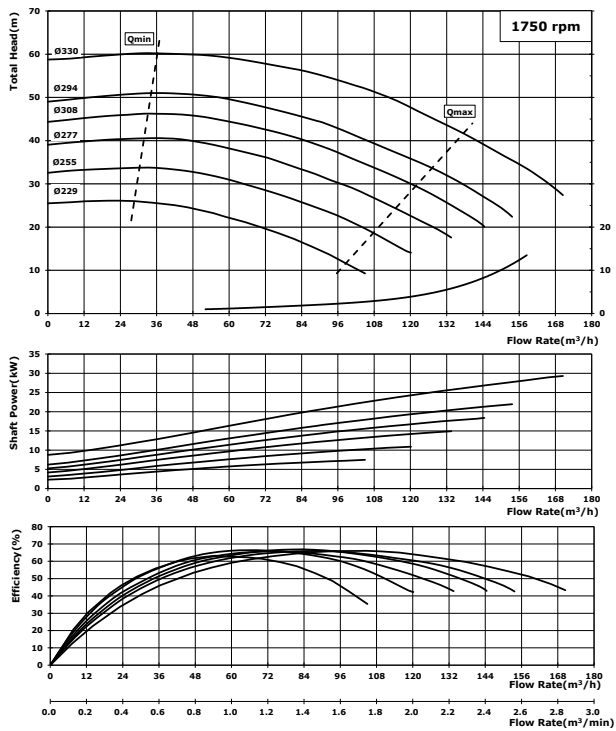
Atmos GIGA-N65/200



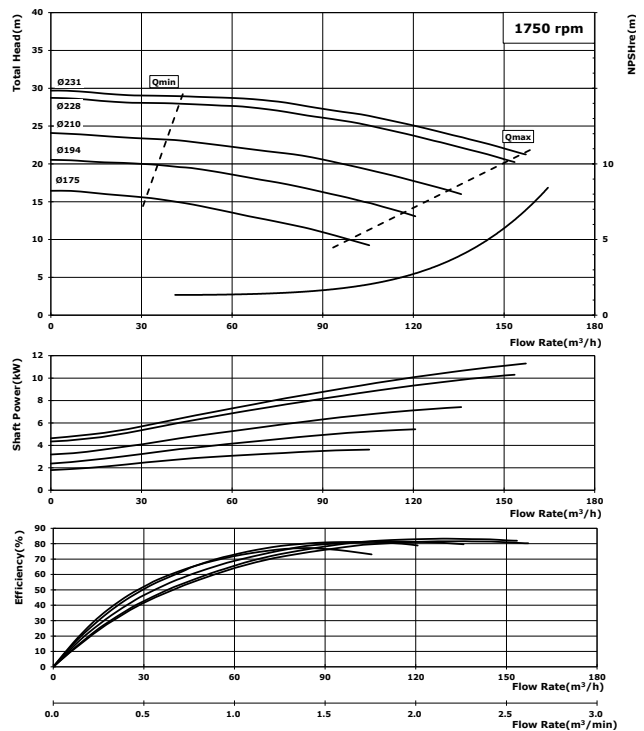
Atmos GIGA-N65/250



Atmos GIGA-N65/315



Atmos GIGA-N80/200



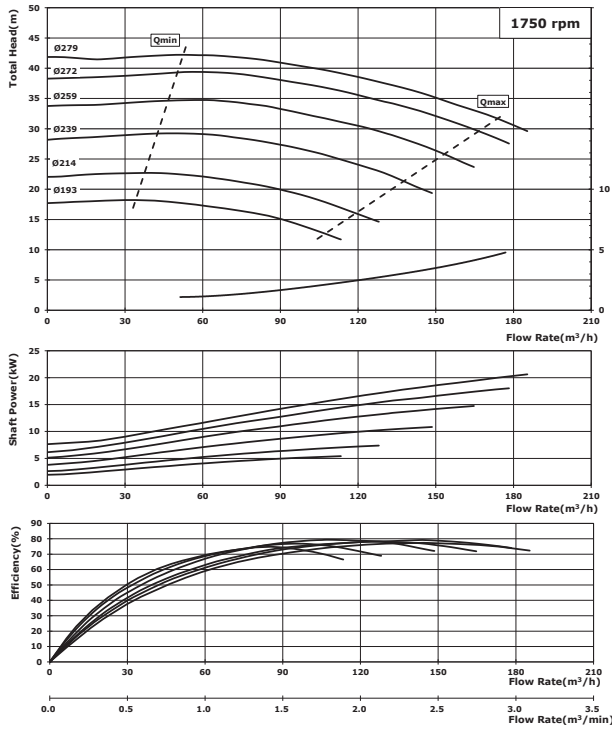
End Suction Pump

Wilo-Atmos GIGA-N Series

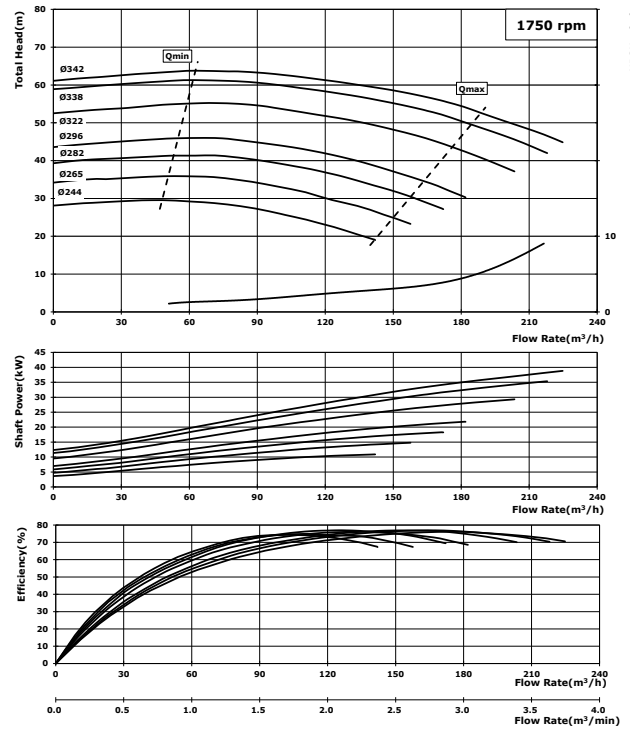


Atmos GIGA-N Series 성능 곡선 4pole

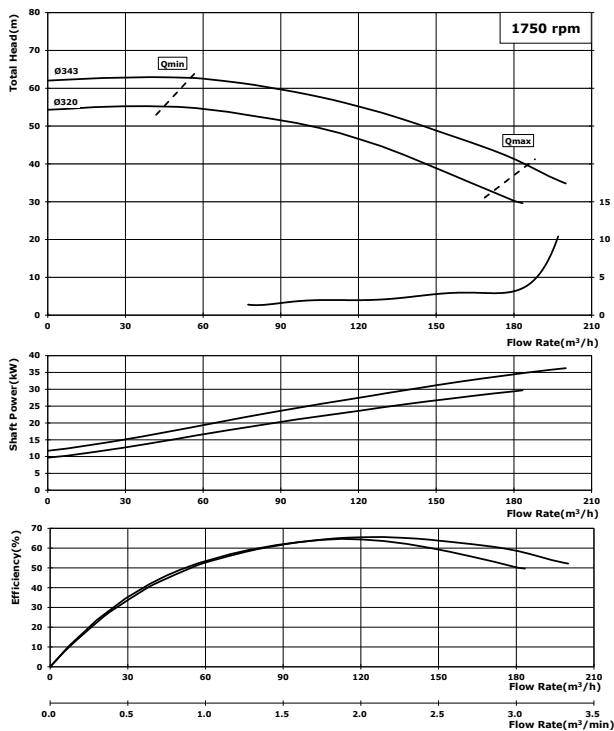
Atmos GIGA-N80/250



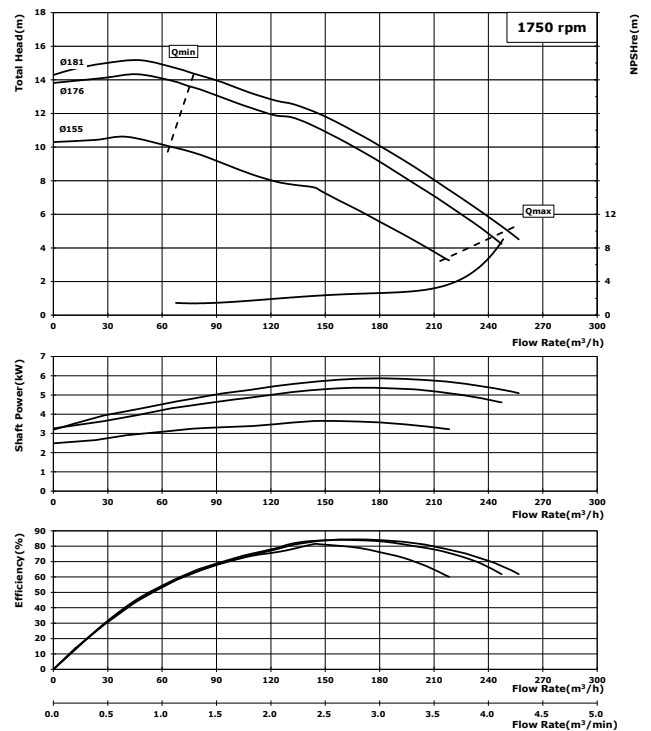
Atmos GIGA-N80/315



Atmos GIGA-N80/400



Atmos GIGA-N100/160



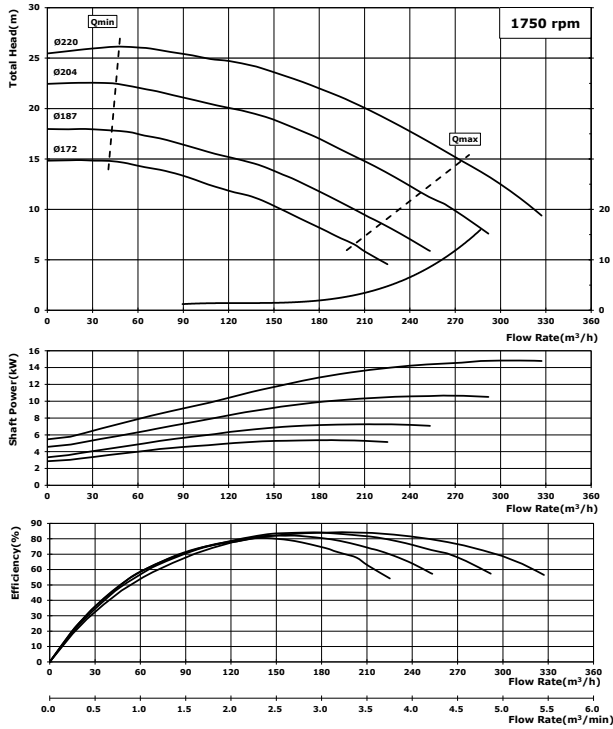
End Suction Pump

Wilo-Atmos GIGA-N Series

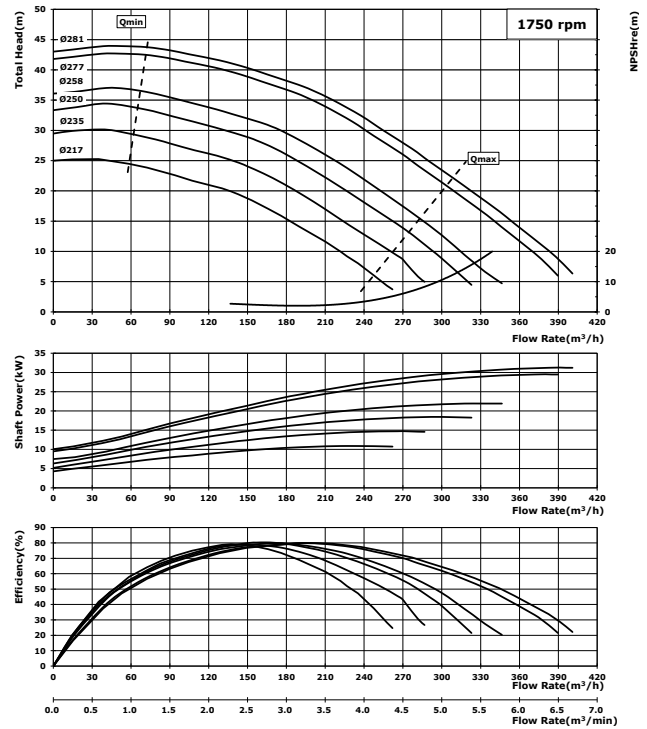
Atmos GIGA-N Series

성능 곡선 4pole

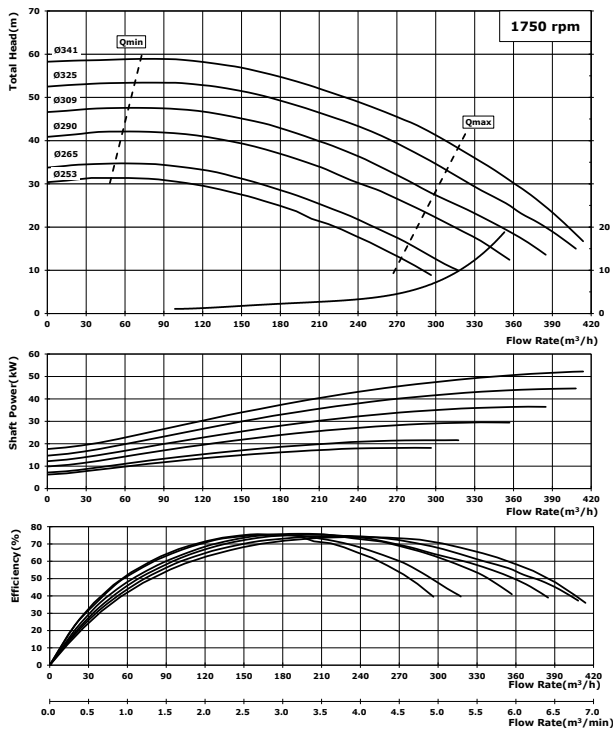
Atmos GIGA-N100/200



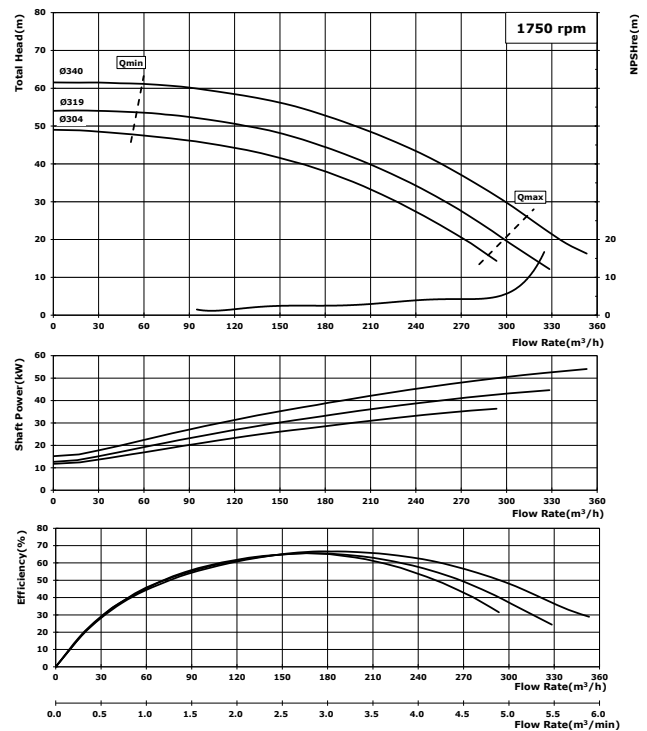
Atmos GIGA-N100/250



Atmos GIGA-N100/315



Atmos GIGA-N100/400



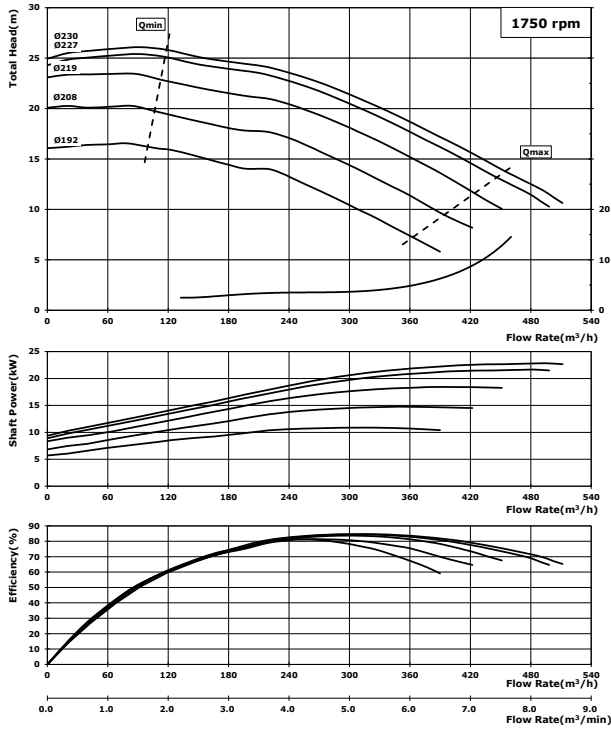
End Suction Pump

Wilo-Atmos GIGA-N Series

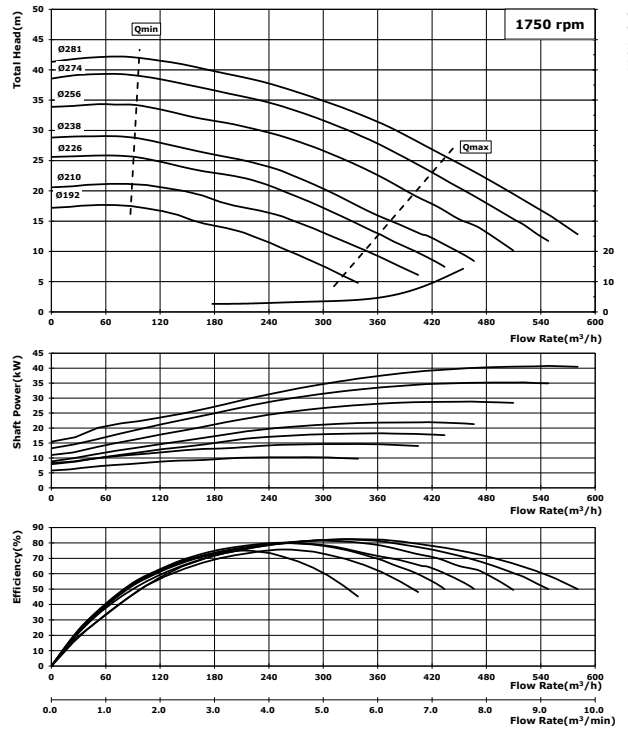


Atmos GIGA-N Series 성능 곡선 4pole

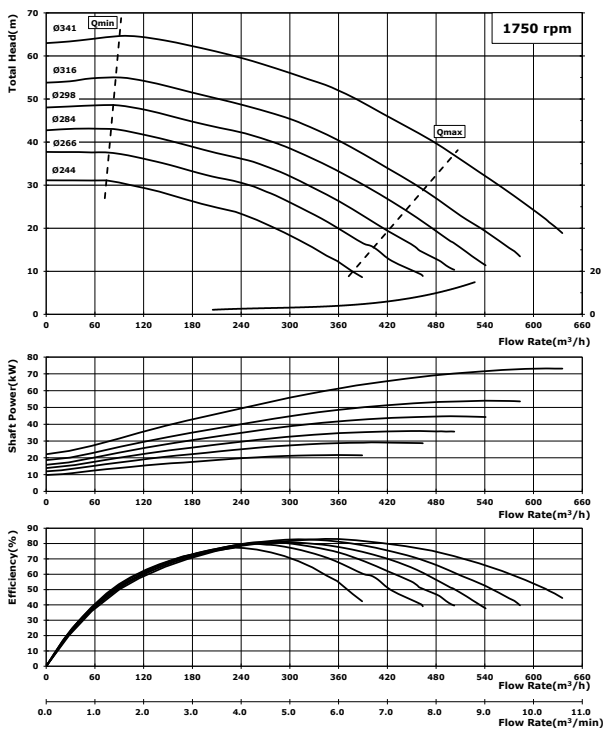
Atmos GIGA-N125/200



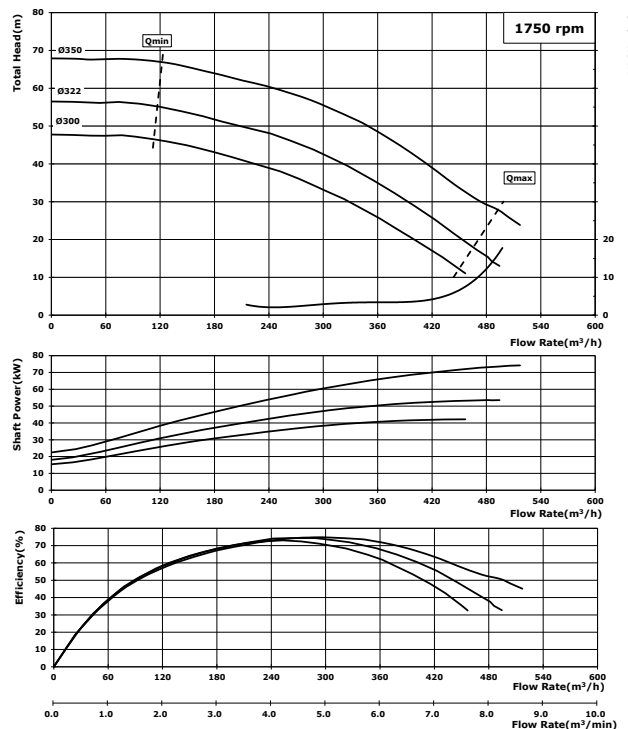
Atmos GIGA-N125/250



Atmos GIGA-N125/315



Atmos GIGA-N125/400



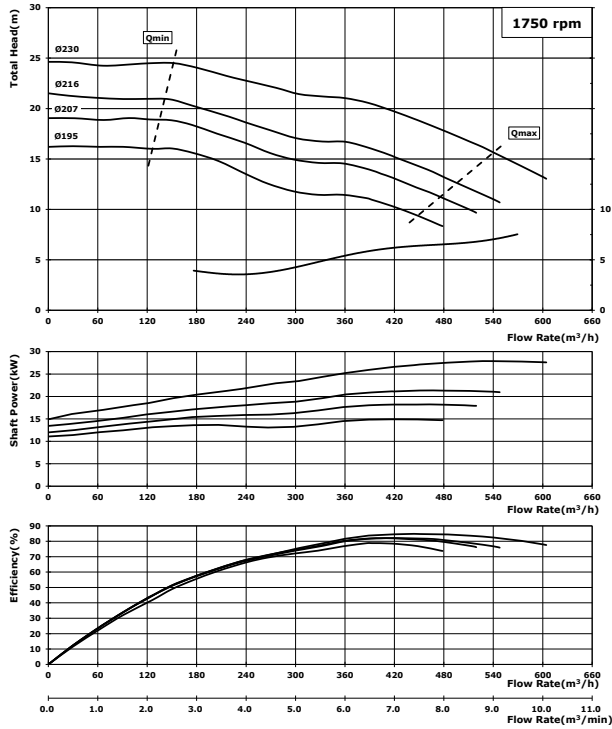
End Suction Pump

Wilo-Atmos GIGA-N Series

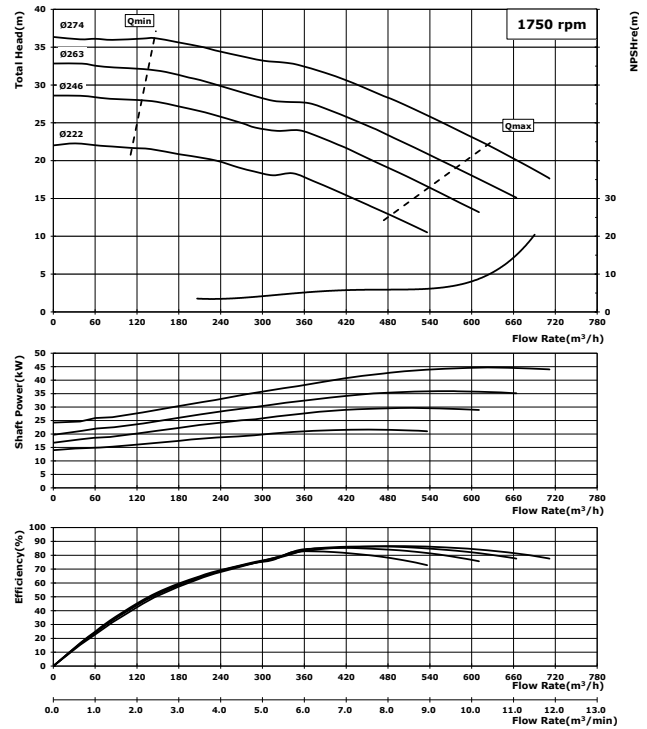
Atmos GIGA-N Series

성능 곡선 4pole

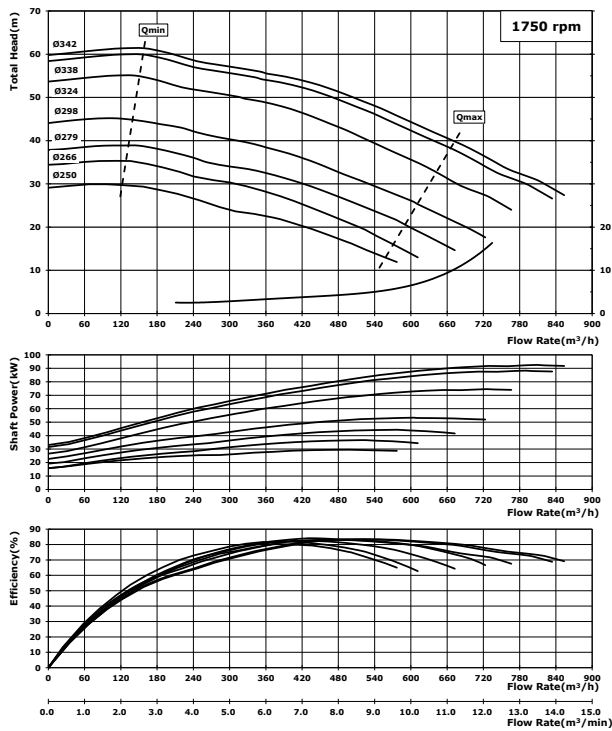
Atmos GIGA-N150/200



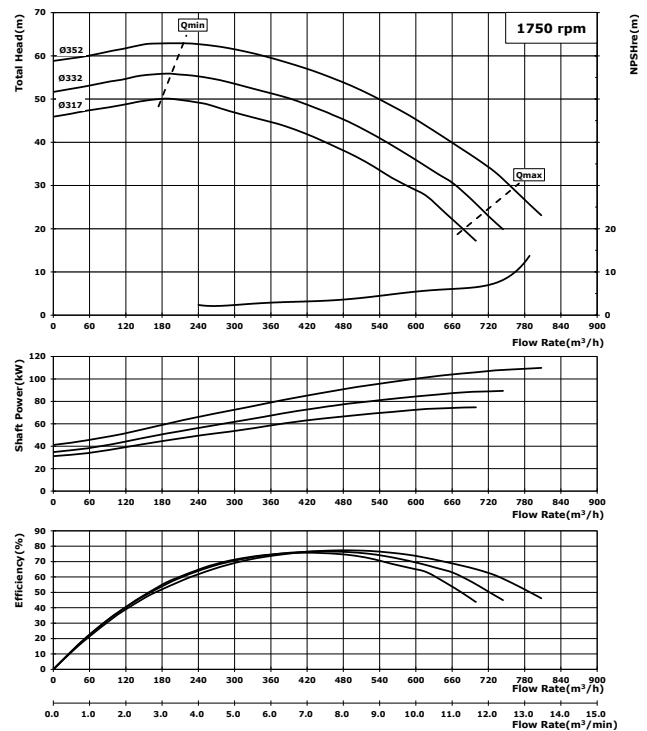
Atmos GIGA-N150/250



Atmos GIGA-N150/315



Atmos GIGA-N150/400



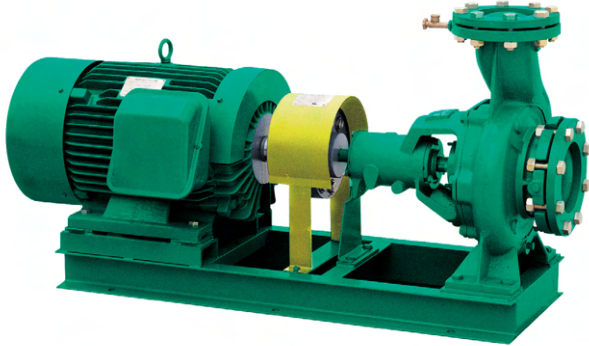
End Suction Pump

PSV Series

wilo

PSV Series

제품소개



적용범위 및 사용유체

- 맑은 액체용 - 청수 및 해수
- 일반산업용 및 급수 시설용
- 가정용수 공급용 및 빌딩 수처리용
- 관개용수용 및 선박용, 드레인용
- 공기조화용 및 스프레이용 (스프링클러용)
- 냉각 또는 가열 순환용

구조 및 특징

- 임펠러 내의 물의 흐름이 용이하도록 설계된 3차원 임펠러를 사용
- Stuffing Box는 KS B 7501 (ISO3069)의 Dimension을 채택하였으므로 Mechanical Seal 사용시 장착이 쉽고 유지보수가 간편
- 제품의 표준화 설계로 인하여 단일품목으로 광범위한 사용 영역
- Back pull-out구조로 편리한 유지보수
- 토출부가 중앙상부에 위치하여 배관하중에 대한 안전성과 펌프 가동시 Balance가 유지
- 진동, 소음분석 설계를 통한 최적의 제품

특장점

- 고효율 설계로 제작
- 높은 내구성
(타제품보다 Bearing Grade가 한 단계 높음)
- KS규격의 외형치수에 준 한 설계 (광범위의 제품 호환성)
- 10 kgf/cm² 적용설계로 견고하며 넓은 사용 가능 범위
- Shaft에 Sleeve가 장착되어 긴 Shaft 수명
- 임펠러의 수로부는 Shell core를 적용하여 내면을 매끈하게 하여 흐름손실 감소

End Suction Pump

PSV Series

PSV Series

제품사양

취급액 (0~100°C의 청수, pH6~8)

고온 또는 청수가 아닌 액을 취급할 경우에는 이송액의 특성 (온도, 농도, 고형물의 유·무)과 사용조건에 따라 내마모성, 내식성이 현저히 변화되는 경우가 있으므로 반드시 영업 또는 공장으로 문의

흡입속 조건

흡입 전양정 또는 압입 압력은 아래표에 따름

흡입 전양정 허용치		
액의 온도	흡입구경	흡입 전양정
0°C~40°C	50 ~ 80mm	-6m 이내
	100 ~ 125mm	-5.5m 이내

흡입 전양정 보정치	
온도	보정치
40°C 이상 ~ 50°C 미만	+1
50°C 이상 ~ 60°C 미만	+2
60°C 이상 ~ 70°C 미만	+3.5
70°C 이상 ~ 80°C 미만	+5
80°C 이상 ~ 90°C 미만	+7
90°C 이상 ~ 95°C 미만	+9
95°C 이상 ~ 100°C 이하	+11

표준 흡입 압력 허용치

흡입 압력이 4kgf/cm² 이하이면서

$$\left[10 - \frac{\text{펌프 체적 전양정}}{10} \right] \text{ kgf/cm}^2 \text{이내}$$

또한 흡입압력이 순간적으로 변하지 않도록 하여야 함
상기조건을 벗어나는 경우에는 영업 또는 공장으로 문의

운전조건

- 기동반복이 빈번한 자동제어용으로 펌프를 사용할 경우에는 임펠러의 파손 우려가 있으므로 임펠러 재질을 BC6급 이상으로 사용
- 자동제어용으로 사용할 경우 기동반복이 시간당 12회를 넘지 않아야 함
- 수격현상 (워터해머)이 발생되지 않도록 배관을 구성

임펠러

임펠러내의 유체 흐름을 균일하도록 하고, 임펠러로부터 유출된 물의 마찰, 와류등으로 인한 손실을 줄여 토출구로 보내도록 설계



*일부 모델에 한해 AIS 스테인리스일 경우 Semi-Open Type Impeller도 가능

적용규격

- KS B 7501(한국공업규격)
 - ISO 2858(국제표준화규격)
 - JIS B 8313(일본공업규격)
- 단단 벌루트펌프의 구조 및 성능은 위 규격에 준하여 제작됨

주문사양 (Option)

- 구조변경 : Mechanical Seal
Bearing Oil 윤활구조
- 접액부 재질 변경

End Suction Pump

PSV Series

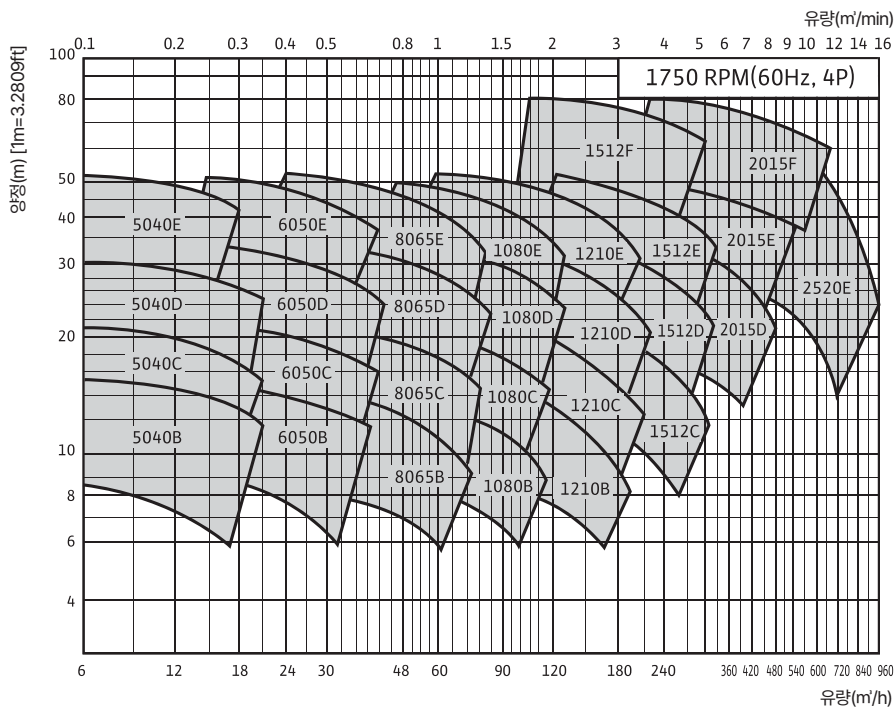
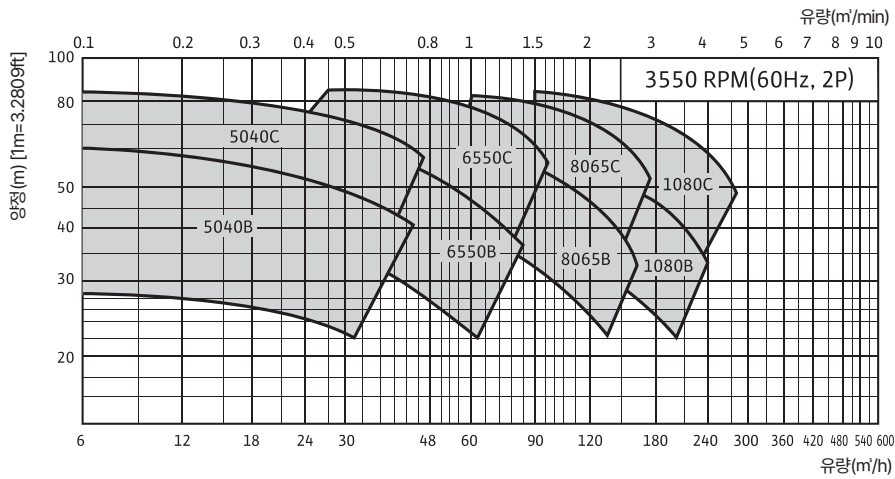


PSV Series 모델명 및 선정도

모델명 부여기준 (MODEL)

펌프형식	흡입구경(mm)	토출구경(mm)	임펠러 공칭외경(mm)
PUMP TYPE	SUCTION BORE	DISCHARGE BORE	IMPELLER DIA.
SINGLE STAGE VOLUTE	25:250	20:200	B:160
	20:200	15:150	C:200
	15:150	12:125	D:250
	12:125	10:100	E:315
	10:100	80:80	F:400
	80:80	65:65	
	65:65	50:50	
50:50			
PSV	- 65	50	D

선정도 (SELECTION CHART)



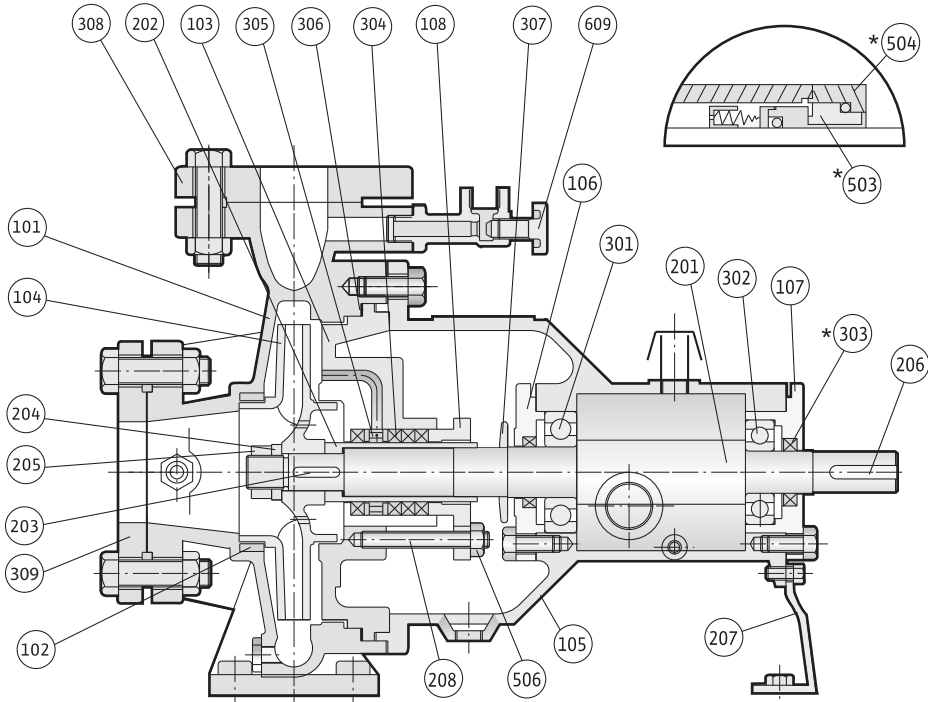
End Suction Pump

PSV Series

PSV Series

단면도

단면도 (SECTIONAL DRAWING)



품번	품명	재질	수량
101	케이싱(CASING)	GC200	1
# 102	케이싱 링(CASING RING)	GC200	1
103	케이싱 커버(CASING COVER)	GC200	1
# 104	임펠러(IMPELLER)	GC200	1
105	베어링 하우징(BEARING HOUSING)	GC200	1
106	베어링 커버(A)[BEARING COVER(A)]	GC200	1
107	베어링 커버(B)[BEARING COVER(B)]	GC200	1
108	글랜드(GLAND)	GC200	1
201	축(SHAFT)	SM45C	1
# 202	슬리브(SLEEVE)	STS304	1
# 203	임펠러 키(IMPELLER KEY)	SM45C	1
204	임펠러 와셔(IMPELLER WASHER)	STS304	1
205	임펠러 너트(IMPELLER NUT)	SS400	1
206	커플링 키(COUPLING KEY)	SM45C	1

품번	품명	재질	수량
207	지지대(SUPPORT)	SCP1	1
208	글랜드 볼트(GLAND BOLT)	STS304	2/4
#301	볼 베어링(A)[BALL BEARING(A)]	STB2	1
#302	볼 베어링(B)[BALL BEARING(B)]	STB2	1
*303	오일 실(OIL SEAL)	NBR	2
#304	글랜드 패킹(GLAND PACKING)	FABRIC	4
305	랜턴링(LANTERN RING)	NORYL/BC6	1
#306	케이싱 가스켓(CASING GASKET)	NBR	1
307	물막음턱(DEFLECTOR)	NR610	1
308	상대플랜지(COMPANION FLANGE)	SS400	1
309	상대플랜지(COMPANION FLANGE)	SS400	1
*503	미케니컬 실(MECHANICAL SEAL)		1
*504	미케니컬 실 커버(M/SEAL COVER)	SM45C	1
506	육각너트(HEX NUT)	C3602BD	2/4
609	마중물컵 파이프(PRIMING PIPE)	HBsC1	1

범례

* : 선택부품 (Option Parts)

: 추천예비품 (Recommended Spare Parts)

End Suction Pump

PSV Series



PSV Series 선정표

1750RPM (60Hz, 4P)

H	Q	3	6	12	18	24	30	36	42	48	54	60	72	84	96	108	120	Q	H
85																			85
80																	1512F 55 2.0	1512F 55 2.2	80
75																	1512F 55 2.0	1512F 55 2.2	75
70																	1512F 45 2.0	1512F 55 2.2	70
65																	1512F 45 2.0	1512F 55 2.2	65
60																	1512F 45 2.0	1512F 37 2.2	60
55												1210E 22 3.0	1210E 22 2.4		1512E 30 2.4	1512E 37 2.4	1512E 37 2.2	55	
52						1080E 15 2.5	1080E 15 2.7	1080E 15 2.8				1210E 22 3.0	1210E 22 2.4	1210E 30 2.2	1210E 30 2.3	1210E 30 2.4	1210E 30 2.4	1512E 37 2.3	52
50		5040E 7.5 4.2	5040E 7.5 3.3	6550E 11 2.9		8065E 11 2.0	8065E 15 3.0	1080E 15 2.8	1080E 15 2.0	1080E 15 1.8	1080E 18.5 1.7	1210E 18.5 2.0	1210E 22 2.4	1210E 22 2.2	1210E 30 2.3	1210E 30 2.4	1210E 30 2.5	50	
48		5040E 5.5 4.2	5040E 7.5 3.3	6550E 7.5 2.9	6550E 11 3.0	6550E 11 2.0	8065E 15 3.0	8065E 15 2.8	8065E 15 2.0	1080E 15 2.0	1080E 18.5 1.7	1080E 18.5 2.0	1080E 18.5 2.0	1080E 22 2.2	1210E 30 2.3	1210E 30 2.4	1210E 30 2.5	48	
46		5040E 5.5 3.3	5040E 5.5 2.6	5040E 7.5 2.8	6550E 11 3.0	6550E 11 2.0	6550E 11 2.1	8065E 15 2.8	8065E 15 2.0	8065E 15 2.0	1080E 18.5 2.2	1080E 18.5 2.0	1080E 18.5 2.0	1080E 22 2.2	1210E 22 2.3	1210E 30 2.4	1210E 30 2.5	46	
44		5040E 5.5 3.3	5040E 5.5 2.6	5040E 7.5 2.4	6550E 7.5 2.8	6550E 7.5 2.0	6550E 11 2.1	8065E 15 2.8	8065E 15 2.0	8065E 15 2.0	8065E 15 2.2	1080E 18.5 2.0	1080E 18.5 2.0	1080E 18.5 2.2	1080E 22 2.3	1210E 30 2.4	1210E 30 2.5	44	
42		5040E 5.5 3.3	5040E 5.5 2.6	5040E 7.5 2.4	6550E 7.5 2.8	6550E 7.5 2.0	6550E 11 2.1	6550E 11 2.7	8065E 15 2.0	8065E 15 2.0	8065E 15 2.2	8065E 15 2.3	1080E 18.5 2.0	1080E 18.5 2.2	1080E 18.5 2.3	1210E 22 2.4	1210E 30 2.5	42	
40		5040E 3.7 3.8	5040E 5.5 3.1	5040E 7.5 2.4	6550E 7.5 2.8	6550E 7.5 2.5	6550E 11 2.3	6550E 11 2.7	8065E 15 2.0	8065E 15 2.0	8065E 15 2.2	8065E 15 2.3	1080E 18.5 2.0	1080E 18.5 2.2	1080E 18.5 2.3	1210E 22 2.4	1210E 30 2.5	40	
38		5040E 3.7 3.8	5040E 5.5 3.1	5040E 5.5 2.2	6550E 7.5 2.8	6550E 7.5 2.5	6550E 11 2.3	6550E 11 2.7	8065E 15 2.0	8065E 15 2.0	8065E 15 2.2	8065E 15 2.3	1080E 15 2.0	1080E 18.5 2.2	1080E 18.5 2.3	1080E 22 2.5	1210E 30 2.5	38	
36		5040E 3.7 3.8	5040E 5.5 3.1	5040E 5.5 2.2	6550E 7.5 2.8	6550E 7.5 2.3	6550E 11 2.3	6550E 11 2.7	8065E 15 2.0	8065E 15 2.0	8065E 15 2.2	8065E 15 2.3	8065E 15 2.4	1080E 18.5 2.2	1080E 18.5 2.3	1080E 22 2.5	1210E 22 2.8	36	
34		5040E 3.7 3.8	5040E 3.7 3.1	5040E 5.5 2.2	6550E 5.5 2.8	6550E 7.5 2.3	6550E 7.5 2.4	6550E 11 2.7	8065E 11 2.0	8065E 11 2.0	8065E 11 2.2	8065E 15 2.3	8065E 15 2.4	1080E 18.5 2.2	1080E 18.5 2.3	1080E 18.5 2.5	1210E 22 2.8	34	
32		5040E 3.7 3.8	5040E 3.7 3.1	5040E 5.5 2.2	6550E 5.5 2.8	6550E 7.5 2.3	6550E 7.5 2.4	6550E 11 2.7	8065D 11 1.9	8065D 11 2.0	8065E 11 2.2	8065E 15 2.3	8065E 15 2.4	1080E 15 2.2	1080E 15 2.3	1080E 18.5 2.5	1210E 22 2.8	32	
30		5040D 3.7 4.0	5040D 3.7 3.5	5040E 3.7 2.2	6550E 5.5 2.8	6550E 5.5 2.3	6550E 7.5 2.4	6550E 11 2.7	8065D 7.5 1.9	8065D 7.5 2.0	8065D 11 2.0	8065D 11 2.1	8065E 15 2.4	1080D 15 2.5	1080D 15 2.7	1080E 18.5 2.5	1210D 18.5 3.0	30	
28		5040D 3.7 4.0	5040D 3.7 3.5	5040D 3.7 2.1	5040D 5.5 2.2	6550D 5.5 2.5	6550D 5.5 2.2	6550D 7.5 2.4	8065D 7.5 1.9	8065D 7.5 1.8	8065D 7.5 2.0	8065D 11 2.1	8065D 11 2.2	1080D 11 2.5	1080D 15 2.7	1080D 15 2.7	1210D 18.5 3.0	28	
26		5040D 3.7 4.0	5040D 3.7 3.5	5040D 3.7 2.0	5040D 3.7 2.2	6550D 5.5 2.5	6550D 5.5 2.2	6550D 7.5 2.4	8065D 7.5 1.9	8065D 7.5 1.8	8065D 7.5 2.0	8065D 11 2.2	8065D 11 2.2	1080D 11 2.5	1080D 11 2.7	1080D 15 2.7	1080D 15 2.8	26	
24		5040D 2.2 4.0	5040D 2.2 3.5	5040D 3.7 2.0	5040D 3.7 2.2	6550D 3.7 2.5	6550D 5.5 2.2	6550D 7.5 2.4	8065D 7.5 2.0	8065D 7.5 1.8	8065D 7.5 2.0	8065D 7.5 2.0	8065D 11 2.2	1080D 11 2.5	1080D 11 2.7	1080D 15 2.7	1080D 15 2.8	24	
22		5040D 2.2 2.5	5040D 2.2 2.2	5040D 2.2 2.0	5040D 3.7 2.2	6550D 3.7 2.5	6550D 5.5 2.2	6550D 7.5 2.4	8065D 7.5 2.0	8065D 5.5 1.8	8065D 7.5 2.0	8065D 7.5 2.0	8065D 11 2.2	1080D 11 2.5	1080D 11 2.7	1080D 11 2.7	1080D 15 2.8	22	
20		5040C 1.5 2.5	5040C 1.5 2.2	5040D 2.2 2.0	5040D 3.7 2.2	6550D 3.7 2.5	6550D 5.5 2.2	6550D 5.5 2.4	6550D 5.5 2.0	8065D 5.5 2.0	8065D 5.5 2.0	8065D 7.5 2.0	8065D 7.5 2.2	1080D 7.5 2.5	1080D 11 2.7	1080D 11 2.7	1210D 11 3.0	20	
18		5040C 1.5 3.0	5040C 1.5 2.2	5040C 2.2 2.0	5040D 2.2 1.8	6550C 3.7 2.2	6550C 3.7 2.3	6550C 3.7 2.4	8065C 5.5 2.2	8065C 5.5 2.0	8065C 5.5 2.0	8065D 5.5 2.2	8065D 7.5 2.2	1080C 7.5 2.5	1080D 11 2.7	1080D 11 2.7	1210C 11 2.8	18	
16		5040C 1.5 3.0	5040C 1.5 2.2	5040C 1.5 2.0	5040C 2.2 1.8	6550C 3.7 2.2	6550C 3.7 2.3	6550C 3.7 2.4	6550C 3.7 2.5	8065C 5.5 2.0	8065C 5.5 2.0	8065C 5.5 2.2	8065C 5.5 2.4	1080C 7.5 2.5	1080C 7.5 2.9	1080C 7.5 3.0	1210C 11 2.8	16	
14		5040B 1.5 3.8	5040B 1.5 3.1	5040C 1.5 2.0	5040C 2.2 1.8	6550C 2.2 2.2	6550C 3.7 2.3	6550C 3.7 2.4	6550C 3.7 2.5	8065C 3.7 2.0	8065C 3.7 2.0	8065C 5.5 2.2	8065C 5.5 2.4	1080C 5.5 2.5	1080C 7.5 2.9	1080C 7.5 3.0	1210B 7.5 3.3	14	
12		5040B 0.75 2.8	5040B 1.5 2.5	5040B 1.5 2.0	5040B 1.5 2.0	6550B 1.5 2.0	6550B 2.2 2.3	6550C 3.7 2.4	6550C 3.7 2.5	8065B 3.7 2.0	8065B 3.7 2.5	8065C 5.5 2.2	8065C 5.5 2.3	1080B 5.5 3.0	1080C 5.5 2.9	1210B 7.5 3.5	1210B 7.5 3.3	12	
10		5040B 0.75 2.8	5040B 0.75 2.5	5040B 1.5 2.0	5040B 1.5 2.0	6550B 1.5 2.0	6550B 2.2 2.3	6550B 2.2 2.8	8065B 2.2 3.8	8065B 2.2 2.8	8065B 3.7 2.7	8065B 3.7 3.0	8065B 3.7 3.2	1080B 3.7 3.0	1080B 5.5 3.2	1080B 5.5 3.4	1210B 5.5 3.5	10	
8		5040B 0.75 2.8	5040B 0.75 2.5	5040B 0.75 2.0	5040B 1.5 3.5	6550B 1.5 2.0	6550B 1.5 2.3	6550B 2.2 2.8	8065B 2.2 3.8	8065B 2.2 2.6	8065B 2.2 2.5	8065B 2.2 3.0	8065B 3.7 3.2	1080B 3.7 3.0	1080B 3.7 3.2	1080B 5.5 3.4	8		
6							6550B 1.5 2.3			8065B 1.5 2.6	8065B 2.2 2.5	8065B 2.2 3.0		1080B 3.7 3.0	1080B 3.7 3.2	1080B 3.7 3.4	6		

*SELECTION TABLE 보는 방법

1. H는 양정(m)이며, Q는 유량(m³/h)
2. IMPELLER 및 CASING의 재질이 회주철이나 청동이 아닌 특수재질의 경우는 별도 문의
3. 본 선정표는 펌프의 개략 선정시에만 사용 (상세 설계시 변경 가능)
4. 선정표에서 정해지지않은 중간사양은 윗단계의 형식과 동력을 적용

5. 안의 내용은

펌프 MODEL
동력(kW), NPSHr(m)

*Semi-Open Type IMPELLER는 당사로 문의

End Suction Pump

PSV Series

PSV Series 선정표

1750RPM (60Hz, 4P)

H	Q	150	180	210	240	270	300	330	360	390	420	450	480	540	600	720	840	Q	H	
85					2015F 132 2.6	2015F 132 2.8	2015F 132 3.0	2015F 160 3.1	2015F 160 3.2	2015F 160 3.6	2015F 160 4.1								85	
80	1512F 75 2.4	1512F 75 2.5			2015F 110 2.6	2015F 110 2.8	2015F 132 3.0	2015F 160 3.1	2015F 132 3.2	2015F 160 3.6	2015F 160 4.1	2015F 160 4.6	2015F 160 4.8	2015F 200 5.2					80	
75	1512F 75 2.4	1512F 75 2.5	1512F 75 2.7		2015F 110 2.6	2015F 110 2.8	2015F 110 3.0	2015F 110 3.1	2015F 132 3.2	2015F 132 3.6	2015F 132 4.1	2015F 160 4.6	2015F 160 4.8	2015F 160 5.2	2015F 200 5.5				75	
70	1512F 55 2.4	1512F 75 2.5	1512F 75 2.7	1512F 75 3.3		2015F 90 2.8	2015F 110 3.0	2015F 110 3.1	2015F 110 3.2	2015F 132 3.6	2015F 132 4.1	2015F 132 4.6	2015F 132 4.8	2015F 160 5.2	2015F 160 5.5				70	
65	1512F 55 2.5	1512F 55 2.5	1512F 75 2.7	1512F 75 3.3		1512F 90 2.8	2015F 90 3.0	2015F 90 3.1	2015F 110 3.2	2015F 110 3.6	2015F 110 4.1	2015F 132 4.6	2015F 132 4.8	2015F 132 5.2	2015F 160 5.5				65	
60	1512F 55 2.5	1512F 55 2.5	1512F 55 2.8	1512F 75 3.3		1512F 75 2.8	1512F 90 3.5	2015F 90 3.1	2015F 90 3.2	2015F 110 3.6	2015F 110 4.1	2015F 110 4.6	2015F 110 4.8	2015F 132 5.2	2015F 160 5.5				60	
55	1512F 45 2.5	1512F 55 2.5	1512F 55 2.8	1512F 75 3.3		1512F 75 2.8	1512F 90 3.5	2015F 90 3.1	2015F 90 3.2	2015F 90 3.6	2015F 110 4.1	2015F 110 4.6	2015F 110 4.8	2015F 110 5.2	2015F 132 5.5				55	
52	1512E 37 2.4	1512F 55 2.5	1512F 55 2.5	1512F 75 2.8		1512F 75 2.8	2015F 75 3.5	2015F 75 3.1	2015F 90 3.2	2015F 90 3.6	2015F 110 4.1	2015F 110 4.6	2015F 110 4.8	2015F 110 5.2	2015F 132 5.5				52	
50	1512E 37 2.4	1512E 45 2.0	1512F 55 2.5	1512F 75 2.8		1512F 75 2.8	2015F 75 3.0	2015F 75 3.3	2015F 90 3.2	2015F 90 3.6	2015F 90 4.1	2015F 110 4.6	2015F 110 4.8	2015F 110 5.2	2015F 132 5.5				50	
48	1512E 37 2.4	1512E 45 2.0	1512E 45 2.3	1512F 55 2.8		1512F 75 2.8	2015F 75 3.0	2015F 75 3.3	2015F 75 3.5	2015F 75 3.6	2015F 90 4.1	2015F 110 4.6	2015F 90 4.8	2015F 110 5.2	2015F 110 5.5				48	
46	1210E 37 2.7	1512E 37 3.0	1512E 45 2.3	1512E 55 3.8		1512F 75 2.8	2015E 75 3.0	2015F 75 3.3	2015F 75 3.5	2015F 75 3.6	2015F 90 4.0	2015F 90 4.2	2015F 90 4.8	2015F 110 5.2	2015F 110 5.5				46	
44	1210E 30 2.7	1512E 37 3.0	1512E 45 2.3	1512E 45 3.8		1512F 75 2.8	2015E 75 3.0	2015E 75 3.3	2015E 75 3.5	2015F 75 3.6	2015F 90 4.0	2015F 90 4.2	2520E 110 4.8	2520E 110 5.2	2015F 110 5.5				44	
42	1210E 30 2.7	1512E 37 3.0	1512E 37 3.3	1512E 45 3.8		1512E 45 4.0	2015E 75 3.0	2015E 75 3.3	2015E 75 3.5	2015E 75 3.6	2015E 75 4.0	2015F 90 4.2	2520E 90 4.8	2520E 90 5.2	2520E 110 5.5				42	
40	1210E 30 2.7	1210E 37 3.2	1512E 37 3.3	1512E 45 3.8		1512E 45 4.0	2015E 55 3.2	2015E 75 3.3	2015E 75 3.5	2015E 75 3.6	2015E 75 4.0	2015E 75 4.2	2015E 90 3.9	2520E 90 5.2	2520E 110 5.5				40	
38	1210E 30 2.8	1210E 37 3.2	1512E 37 3.3	1512E 37 3.8		1512E 45 4.0	1512E 55 3.2	2015E 55 3.3	2015E 75 3.4	2015E 75 3.6	2015E 75 4.0	2015E 75 4.2	2015E 75 3.9	2520E 90 5.2	2520E 90 5.5	2520E 110 6.3			38	
36	1210E 30 2.8	1210E 37 3.2	1512E 37 3.3	1512E 37 3.8		1512E 45 4.0	1512E 45 3.2	2015E 55 3.3	2015E 55 3.4	2015E 75 3.6	2015E 75 4.0	2015E 75 4.2	2015E 75 3.9	2520E 75 5.2	2520E 90 5.5	2520E 110 6.3			36	
34	1210E 30 2.8	1210E 37 3.2	1512E 30 3.3	1512E 37 3.8		1512E 45 4.0	1512E 45 3.2	2015E 55 3.3	2015E 55 3.4	2015E 55 3.6	2015E 55 4.0	2015E 75 4.2	2015E 75 4.0	2520E 75 5.2	2520E 90 5.5	2520E 110 6.3			34	
32	1210E 30 2.8	1210E 37 3.0	1512E 30 3.3	1512E 37 3.6		1512E 37 4.0	1512E 45 3.2	2015E 45 3.3	2015E 55 3.4	2015E 55 3.6	2015E 55 4.0	2015E 55 4.2	2015E 75 4.0	2520E 75 5.2	2520E 75 5.5	2520E 90 6.3	2520E 110 7.0		32	
30	1210E 22 3.0	1210E 30 3.0	1512E 30 3.3	1512E 37 3.6		1512E 37 4.0	1512E 45 3.2	2015D 55 4.5	2015D 55 4.7	2015E 55 3.6	2015E 55 4.0	2015E 55 4.2	2015E 75 4.0	2520E 75 5.2	2520E 75 5.5	2520E 90 6.3	2520E 110 7.0		30	
28	1210D 18.5 3.0	1210E 30 3.0	1512D 30 3.0	1512E 37 3.6		1512E 37 4.0	1512E 45 3.2	2015D 45 4.5	2015D 55 4.7	2015D 55 4.9	2015D 55 5.1	2015E 55 4.2	2015E 75 4.0	2520E 75 5.2	2520E 75 5.5	2520E 90 6.3	2520E 110 7.0		28	
26	1210D 15 3.5	1512D 22 3.2	1512D 22 3.0	1512D 30 3.3		1512E 37 4.0	1512E 45 3.2	2015D 37 4.0	2015D 45 4.7	2015D 45 4.9	2015D 55 5.1	2015D 55 5.2	2015E 55 4.0	2520E 55 5.2	2520E 75 5.5	2520E 75 6.3	2520E 90 7.0		26	
24	1210D 15 3.5	1210D 18.5 3.2	1512D 22 3.2	1512D 30 3.3		2015D 37 3.8	2015D 37 4.0	2015D 37 4.0	2015D 37 4.7	2015D 45 4.9	2015D 45 5.1	2015D 45 5.2	2520E 55 4.0	2520E 55 5.2	2520E 75 5.5	2520E 75 5.5	2520E 90 7.0		24	
22	1210D 15 3.5	1210D 18.5 3.2	1512D 22 3.2	1512D 22 3.3		2015D 30 3.6	2015D 30 4.0	2015D 37 4.0	2015D 37 4.3	2015D 37 4.9	2015D 37 5.1	2015D 45 5.2	2520E 55 4.0	2520E 55 5.2	2520E 55 5.5	2520E 75 5.5	2520E 90 7.0		22	
20	1210D 15 3.5	1210D 18.5 3.2	1512D 18.5 3.2	1512D 18.5 3.3		2015D 30 3.6	2015D 30 4.0	2015D 30 4.0	2015D 30 4.3	2015D 37 4.5	2015D 37 4.9	2015D 37 5.2			2520E 55 5.5	2520E 75 5.5			20	
18	1210D 15 3.5	1210D 15 3.2	1512C 18.5 3.5	1512D 18.5 4.0		2015D 22 3.6	2015D 30 4.0	2015D 30 4.0	2015D 30 4.5	2015D 30 4.5	2015D 30 4.5	2015D 37 4.9	2015D 37 5.2			2520E 75 5.5			18	
16	1210C 11 3.3	1512C 15 3.4	1512C 15 3.5	1512C 18.5 4.0		2015D 22 3.6	2015D 22 4.0	2015D 30 4.0	2015D 30 4.5	2015D 30 4.8	2015D 30 5.3								16	
14	1210C 11 3.3	1210C 11 3.6	1512C 15 3.5	1512C 15 4.0		1512C 18.5 3.5	2015D 22 4.0		2015D 30 4.5	2015D 30 4.8	2015D 30 5.3								14	
12	1210B 11 3.8	1210C 11 3.6	1512C 11 3.5	1512C 15 4.0		1512C 15 3.5	1512C 18.5 4.0													12
10	1210B 7.5 3.8	1210B 11 4.0	1512C 11 3.5	1512C 11 4.0		1512C 15 3.5														10
8	1210B 5.5 3.8	1210B 7.5 4.0																		8
6																				6

*SELECTION TABLE 보는 방법

1. H는 양정(m)이며, Q는 유량(m³/h)
2. IMPELLER 및 CASING의 재질이 회주철이나 청동이 아닌 특수재질의 경우는 별도 문의
3. 본 선정표는 펌프의 개략 선정시에만 사용 (상세 설계시 변경 가능)

4. 선정표에서 정해지지않은 중간사양은 윗단계의 형식과 동력을 적용

5. 안의 내용은

펌프 MODEL
동력(kW), NPSHr(m)

*Semi-Open Type IMPELLER는 당사로 문의

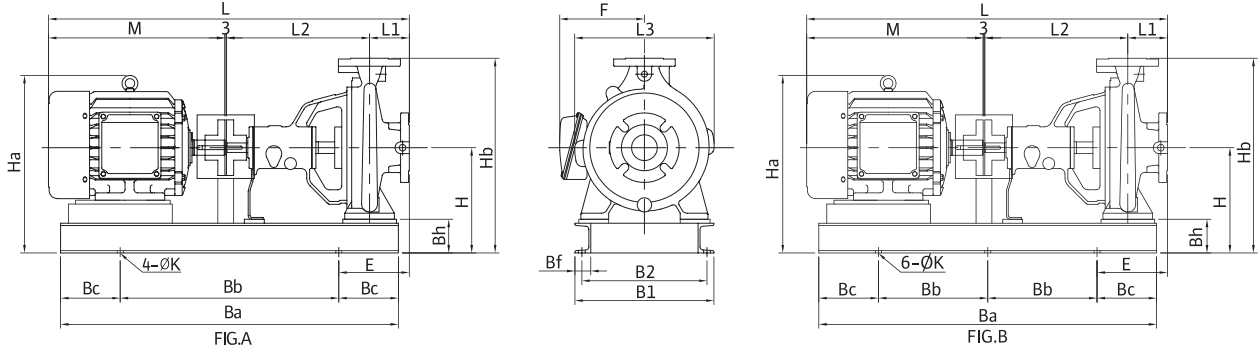
End Suction Pump

PSV Series



PSV Series 외형도 및 치수

외형도



치수																						
MODEL	FIG	MOTOR (kW)	PUMP & MOTOR(mm)										BED ASM(mm)						WEIGHT(kg)			
			L	M	Ha	E	F	H	L3	L1	L2	Hb	Ba	B1	Bh	Bb	Bc	B2	Bf	K	P-B	P-B-M
PSV-5040B	A	0.75	707	264	305	120	148	217	250	80	360	377	650	290	85	450	100	255	40	15	55	73
	A	1.5	761	318	313	145	158	217	250	80	360	377	750	350	85	500	125	315	40	15	57	82
	A	2.2	800	357	359	170	171	217	250	80	360	377	800	290	85	500	150	255	40	15	56	90
PSV-5040C	A	1.5	781	318	341	167.5	158	245	290	100	360	425	750	350	85	500	125	315	40	15	64	89
	A	2.2	820	357	387	187.5	171	245	290	100	360	425	800	350	85	500	150	315	40	15	66	100
	A	3.7	833	370	405	167.5	180	245	290	100	360	425	750	350	85	500	125	315	40	15	64	109
PSV-5040D	A	2.2	820	357	407	177.5	171	265	350	100	360	490	800	350	85	500	150	315	40	15	73	107
	A	3.7	833	370	425	152.5	180	265	350	100	360	490	750	350	85	500	125	315	40	15	76	121
	A	5.5	910	447	444	177.5	220	265	350	100	360	490	850	350	85	550	150	315	40	15	79	147
PSV-5040E	A	3.7	968	370	470	227.5	180	310	415	125	470	560	900	410	85	550	175	375	40	15	112	157
	A	5.5	1045	447	489	227.5	220	310	415	125	470	560	950	410	85	600	175	375	40	15	116	184
	A	7.5	1084	486	489	227.5	220	310	415	125	470	560	950	410	85	600	175	375	40	15	116	198
	A	11	1193	595	545	277.5	265	335	415	125	470	585	1050	440	110	600	225	395	50	19	128	245
PSV-6550B	A	1.5	781	318	341	165	158	245	255	100	360	425	750	350	85	500	125	315	40	15	60	85
	A	2.2	820	357	387	185	171	245	255	100	360	425	800	350	85	500	150	315	40	15	62	96
	A	3.7	833	370	405	165	180	245	255	100	360	425	750	350	85	500	125	315	40	15	60	105
PSV-6550C	A	2.2	820	357	387	185	171	245	305	100	360	445	800	350	85	500	150	315	40	15	67	101
	A	3.7	833	370	405	165	180	245	305	100	360	445	750	350	85	500	125	315	40	15	65	110
	A	5.5	910	447	424	180	220	245	305	100	360	445	800	350	85	500	150	315	40	15	69	137
PSV-6550D	A	3.7	833	370	425	152.5	180	265	350	100	360	490	750	350	85	500	125	315	40	15	80	125
	A	5.5	910	447	444	177.5	220	265	350	100	360	490	850	350	85	550	150	315	40	15	83	151
	A	7.5	949	486	444	177.5	220	265	350	100	360	490	850	350	85	550	150	315	40	15	83	165
PSV-6550E	A	3.7	968	370	470	227.5	180	310	415	125	470	590	900	410	85	550	175	375	40	15	114	159
	A	5.5	1045	447	489	227.5	220	310	415	125	470	590	950	410	85	600	175	375	40	15	118	186
	A	7.5	1084	486	489	227.5	220	310	415	125	470	590	950	410	85	600	175	375	40	15	118	200
	B	11	1193	595	545	202.5	265	335	415	125	470	615	1100	440	110	400	150	395	50	19	133	250
	B	15	1237	639	545	202.5	265	335	415	125	470	615	1100	440	110	400	150	395	50	19	133	273
PSV-8065B	A	2.2	820	357	387	172.5	171	245	275	100	360	445	800	350	85	500	150	315	40	15	69	103
	A	3.7	833	370	405	152.5	180	245	275	100	360	445	750	350	85	500	125	315	40	15	66	111
	A	5.5	910	447	424	182.5	220	245	275	100	360	445	800	350	85	500	150	315	40	15	70	138
PSV-8065C	A	3.7	833	370	425	152.5	180	265	345	100	360	490	750	350	85	500	125	315	40	15	74	119
	A	5.5	910	447	444	177.5	220	265	345	100	360	490	850	350	85	550	150	315	40	15	77	145
	A	7.5	949	486	444	177.5	220	265	345	100	360	490	850	350	85	550	150	315	40	15	77	159
PSV-8065D	A	7.5	1059	486	464	185	220	285	370	100	470	535	950	410	85	600	175	375	40	15	106	188
	B	11	1168	595	520	160	265	310	370	100	470	560	1100	440	110	400	150	395	50	19	118	235
	B	15	1212	639	520	160	265	310	370	100	470	560	1100	440	110	400	150	395	50	19	118	258
PSV-8065E	B	11	1193	595	545	185	265	335	410	125	470	615	1100	440	110	400	150	395	50	19	138	255
	B	15	1237	639	545	185	265	335	410	125	470	615	1100	440	110	400	150	395	50	19	138	278

* Motor 관련 치수는 Motor 제조 업체에 따라 달라질 수 있음(하이젠 모터 기준 치수)

P-B: 모터제외중량 / P-B-M: 모터포함중량

* 'F' 치수가 없는 경우 - Motor Terminal Box가 상부에 위치
- 'Ha' 치수는 Motor Terminal Box 상부까지의 치수

End Suction Pump

PSV Series

PSV Series 치수

치수																						
MODEL	FIG	MOTOR (kW)	PUMP & MOTOR(mm)										BED ASM(mm)						WEIGHT(kg)			
			L	M	Ha	E	F	H	L3	L1	L2	Hb	Ba	B1	Bh	Bb	Bc	B2	Bf	K	P-B	P-B-M
PSV-8065E	B	18.5,22	1243	645	581	185	297	335	410	125	470	615	1150	440	110	425	150	395	50	19	138	323/328
	A	3.7	858	370	425	177.5	180	265	310	125	360	490	750	350	85	500	125	315	40	15	75	120
PSV-1080B	A	5.5	858	447	444	202.5	220	265	310	125	360	490	850	350	85	550	150	315	40	15	78	146
	A	7.5	935	486	444	202.5	220	265	310	125	360	490	850	350	85	550	150	315	40	15	78	160
PSV-1080C	A	5.5	974	447	444	222	220	265	330	125	470	515	1000	470	85	660	170	440	40	15	95	163
	A	7.5	1045	486	444	222	220	265	330	125	470	515	1000	470	85	660	170	440	40	15	95	177
	A	11	1084	595	500	279.5	265	290	330	125	470	540	1050	440	110	600	225	395	50	19	104	221
	B	11	1193	595	520	185	265	310	380	125	470	590	1100	440	110	400	150	395	50	19	121	238
PSV-1080D	B	15	1193	639	520	185	265	310	380	125	470	590	1100	440	110	400	150	395	50	19	121	261
	B	18.5,22	1237	645	556	190	297	310	380	125	470	590	1100	440	110	400	150	395	50	19	121	306/311
PSV-1080E	B	18.5,22	1243	645	606	185	297	360	435	125	470	675	1150	440	110	425	150	395	50	19	142	327/332
	B	30	1243	673	606	185	297	360	435	125	470	675	1150	440	110	425	150	395	50	19	142	377
	A	5.5	1243	447	464	210	220	285	360	125	470	565	950	410	85	600	175	375	40	15	103	171
PSV-1210B	A	7.5	1243	486	464	210	220	285	360	125	470	565	950	410	85	600	175	375	40	15	103	185
	B	11	1271	595	520	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	115	232
	B	15	1045	639	520	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	115	255
	A	7.5	1084	486	464	210	220	285	360	125	470	565	950	410	85	600	175	375	40	15	108	190
PSV-1210C	B	11	1193	595	520	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	120	237
	B	15	1237	639	520	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	120	260
PSV-1210D	B	15	1084	639	545	200	265	335	390	140	470	615	1100	440	110	400	150	395	50	19	131	271
	B	18.5,22	1193	645	581	200	297	335	390	140	470	615	1150	440	110	425	150	395	50	19	131	316/321
	B	18.5,22	1237	645	606	200	297	360	460	140	470	675	1150	440	110	425	150	395	50	19	150	325/340
PSV-1210E	B	30	1252	673	606	200	297	360	460	140	470	675	1150	440	110	425	150	395	50	19	150	385
	B	37	1433	820	629	175	366	360	460	140	470	675	1250	440	110	500	125	395	50	19	169	449
PSV-1512C	B	15	1258	639	570	200	265	360	405	140	470	675	1100	440	110	400	150	395	50	19	140	280
	B	18.5,22	1258	645	606	200	297	360	405	140	470	675	1150	440	110	425	150	395	50	19	140	320/330
	B	18.5,22	1258	645	606	200	297	360	420	140	470	715	1150	440	110	425	150	395	50	19	144	329/334
PSV-1512D	B	30	1286	673	606	200	297	360	420	140	470	715	1150	440	110	425	150	395	50	19	144	379
	B	37	1433	820	629	175	366	360	420	140	470	715	1250	440	110	500	125	395	50	19	163	443
	B	45	1433	820	629	175	366	360	420	140	470	715	1250	440	110	500	125	395	50	19	163	468
	B	30	1346	673	641	180	297	395	495	140	530	750	1300	560	115	500	150	515	50	19	208	443
PSV-1512E	B	37	1493	820	664	155	366	395	495	140	530	750	1350	560	115	550	125	515	50	19	210	490
	B	45	1493	820	664	155	366	395	495	140	530	750	1350	560	115	550	125	515	50	19	210	515
	B	55	1498	825	702	185	400	417	495	140	530	772	1300	560	137	500	150	500	65	23	220	605
	B	30	1346	673	676	180	297	430	563	140	530	830	1200	560	115	450	150	515	50	19	249	484
PSV-1512F	B	37	1493	820	699	155	366	430	563	140	530	830	1350	560	115	550	125	515	50	19	260	540
	B	45	1493	820	699	155	366	430	563	140	530	830	1350	560	115	550	125	515	50	19	260	565
	B	55	1498	825	735	135	400	450	563	140	530	850	1350	570	135	550	125	505	65	23	272	657
	B	75	1583	910	710	185	440	450	563	140	530	850	1450	570	135	550	175	505	65	23	280	760
	B	30	1366	673	641	187	297	395	550	160	530	770	1300	560	115	500	150	515	50	19	206	441
PSV-2015D	B	37	1513	820	664	162	366	395	550	160	530	770	1350	560	115	550	125	515	50	19	208	488
	B	45	1513	820	664	162	366	395	550	160	530	770	1350	560	115	550	125	515	50	19	208	513
	B	55	1518	825	680	187	400	395	550	160	530	770	1300	560	115	500	150	515	50	19	206	591
	B	37	1513	820	699	193	366	430	600	160	530	830	1300	580	115	500	150	535	50	19	236	516
PSV-2015E	B	45	1513	820	699	193	366	430	600	160	530	830	1300	580	115	500	150	535	50	19	236	541
	B	55	1518	825	715	193	400	430	600	160	530	830	1300	580	115	500	150	535	50	19	236	621
	B	75	1603	910	715	218	440	455	600	160	530	855	1450	610	140	550	175	550	65	23	261	741
	B	90	1603	910	715	218	440	455	600	160	530	855	1450	610	140	550	175	550	65	23	261	776
	B	110	1793	1100	763	218	549	455	600	160	530	855	1550	610	140	600	175	550	65	23	271	1001
	B	132	1793	1100	763	218	549	455	600	160	530	855	1550	610	140	600	175	550	65	23	271	1071
	B	37	1513	820	699	190	366	430	625	160	530	880	1300	580	115	500	150	535	50	19	280	560
PSV-2015F	B	45	1513	820	699	190	366	430	625	160	530	880	1300	580	115	500	150	535	50	19	280	585
	B	55	1518	825	715	190	400	430	625	160	530	880	1300	580	115	500	150	535	50	19	280	665
	B	75	1603	910	715	215	440	455	625	160	530	905	1450	610	140	550	175	550	65	23	305	785
	B	90	1603	910	715	215	440	455	625	160	530	905	1450	610	140	550	175	550	65	23	305	820
	B	110	1793	1100	763	215	549	455	625	160	530	905	1550	610	140	600	175	550	65	23	315	1045
	B	132	1793	1100	763	215	549	455	625	160	530	905	1550	610	140	600	175	550	65	23	315	1115
	B	160	1989	1296	1118	215	-	535	625	160	530	985	1650	700	220	650	175	620	75	27	340	1520
	B	200	1989	1296	1118	215	-	535	625	160	530	985	1650	700	220	650	175	620	75	27	340	1620
	B	55	1584	825	775	195	400	490	596	200	556	920	1350	620	140	550	125	560	65	23	352	737
PSV-2520E	B	75	1669	910	750	265	440	490	596	200	556	920	1450	610	140	550	175	550	65	23	361	841
	B	90	1669	910	750	265	440	490	596	200	556	920	1450	610	140	550	175	550	65	23	361	876
	B	110	1859	1100	798	270	549	490	596	200	556	920	1600	620	140	600	200	560	65	23	379	1109
	B	132	1859	1100	798	270	549	490	596	200	556	920	1600	620	140	600	200	560	65	23	379	1179

* Motor 관련 치수는 Motor제조 업체에 따라 달라질 수 있음(하이젠 모터 기준 치수)

P-B: 모터제외중량 / P-B-M: 모터포함중량

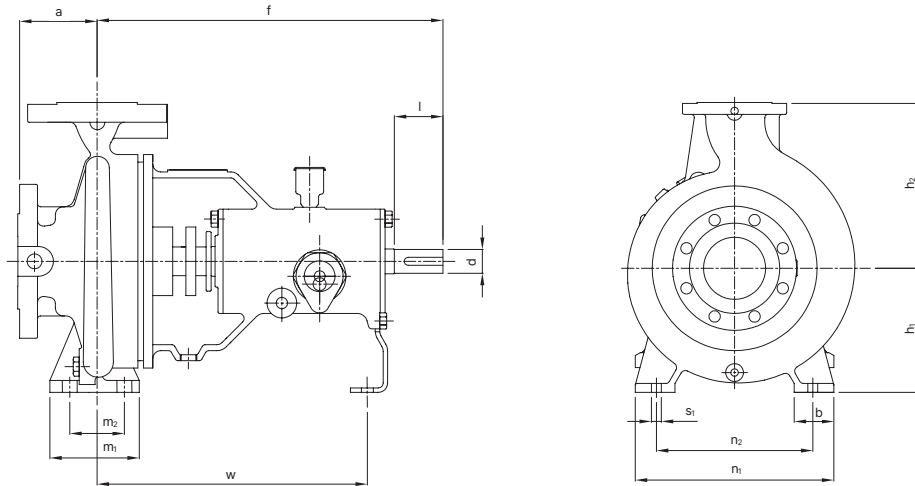
End Suction Pump

PSV Series



PSV Series 외형도 및 치수-Bare Shaft Pump

외형도



치수																
MODEL	BORE(mm)		PUMP(mm)													WEIGHT (kg)
	Suc.	Dis.	a	f	h ₁	h ₂	b	m ₁	m ₂	n ₁	n ₂	w	s ₁	d	l	
PSV-5040B	50	40	80	360	132	160	50	100	70	240	190	285	15	24	50	32
PSV-5040C			100	360	160	180	50	100	70	265	212	285	15	24	50	39
PSV-5040D			100	360	180	225	65	125	95	320	250	285	15	24	50	48
PSV-5040E			125	470	225	250	65	125	95	345	280	370	15	32	80	80
PSV-6550B	65	50	100	360	160	180	50	100	70	265	212	285	15	24	50	35
PSV-6550C			100	360	160	200	50	100	70	265	212	285	15	24	50	40
PSV-6550D			100	360	180	225	65	125	95	320	250	285	15	24	50	52
PSV-6550E			125	470	225	280	65	125	95	345	280	370	15	32	80	82
PSV-8065B	85	65	100	360	160	200	65	125	95	280	212	285	15	24	50	41
PSV-8065C			100	360	180	225	65	125	95	320	250	285	15	24	50	46
PSV-8065D			100	470	200	250	80	160	120	360	280	370	19	32	80	68
PSV-8065E			125	470	225	280	80	160	120	400	315	370	19	32	80	88
PSV-1080B	100	80	125	360	180	225	65	125	95	320	250	285	15	24	50	47
PSV-1080C			125	470	180	250	65	125	95	345	280	370	15	32	80	56
PSV-1080D			125	470	200	280	80	160	120	400	315	370	19	32	80	71
PSV-1080E			125	470	250	315	80	160	120	400	315	370	19	32	80	92
PSV-1210B	125	100	125	470	200	280	80	160	120	360	280	370	19	32	80	65
PSV-1210C			125	470	200	280	80	160	120	360	280	370	19	32	80	70
PSV-1210D			140	470	225	280	80	160	120	400	315	370	19	32	80	81
PSV-1210E			140	470	250	315	80	160	120	400	315	370	19	32	80	100
PSV-1512C	150	125	140	470	250	315	80	160	120	400	315	370	19	32	80	90
PSV-1512D			140	470	250	355	100	160	120	400	315	370	19	32	80	94
PSV-1512E			140	530	280	355	100	200	150	500	400	370	23	42	110	130
PSV-1512F			140	530	315	400	100	200	150	500	400	370	23	42	110	180
PSV-2015D	200	150	160	530	280	375	100	200	150	500	400	370	23	42	110	128
PSV-2015E			160	530	315	400	100	200	150	550	450	370	23	42	110	156
PSV-2015F			160	530	315	450	100	200	150	550	450	370	23	48	110	200
PSV-2520E	250	200	200	556	350	430	100	200	150	550	450	395	23	48	110	256

End Suction Pump

PSV Series

PSV Series

기술 Data

Stuffing Box Data

MODEL	Stuffing Box Size		Outer Dia. of Sleeve	Gland Packing Size(W*H*L)	Number of Gland Packing		
	Bore	Length					
PSV-5040B	Ø51	49	Ø35	8*8*143	4		
PSV-6550B							
PSV-8065B							
PSV-1080B							
PSV-5040C							
PSV-6550C							
PSV-8065C		48					
PSV-5040D							
PSV-6550D							
PSV-1210B						Ø65	Ø45
PSV-1080C							
PSV-1210C							
PSV-1512C							
PSV-8065D							
PSV-1080D							
PSV-1210D							
PSV-1512D							
PSV-5040E	60	Ø45	10*10*184				
PSV-6550E							
PSV-8065E							
PSV-1080E							
PSV-1210E							
PSV-1512E	Ø75	Ø55	10*10*215				
PSV-1512F							
PSV-2015D							
PSV-2015E							
PSV-2015F	Ø90	73	Ø65	12.5*12.5*255			
PSV-2520E							

Shaft & Bearing Housing Data

MODEL	Shaft Diameter				Size of key At Coupling	Span Between		Bearing No.						
	At Impeller	At Stuff. Box	Between Bearing	At Coupling		Thrust Bearing & Impeller	Bearings							
PSV-5040B	Ø22	Ø29	Ø36	VØ24	8*7*36	157	118	Thrust : 6306zzC3 Radial : 6305zzC3						
PSV-6550B						160								
PSV-8065B						165								
PSV-1080B						170								
PSV-5040C						158								
PSV-6550C						159								
PSV-8065C						167								
PSV-5040D						158								
PSV-6550D						160								
PSV-1210B						Ø30			Ø38	Ø49	Ø32	10*8*50	209	162
PSV-1080C	195													
PSV-1210C	210													
PSV-1512C	208													
PSV-8065D	197													
PSV-1080D	204													
PSV-1210D	207													
PSV-1512D	210													
PSV-5040E	196													
PSV-6550E	197	Ø49	Ø32	10*8*50	12*8*50		175	Thrust : 6410zzC3 Radial : 6409zzC3						
PSV-8065E														
PSV-1080E														
PSV-1210E														
PSV-1512E														
PSV-1512F	Ø42	Ø47	Ø59	Ø42	12*8*50		175	Thrust : 6410zzC3 Radial : 6409zzC3						
PSV-2015D														
PSV-2015E														
PSV-2015F														
PSV-2520E	Ø50	Ø55	Ø73	Ø48	14*9*80	167.5	Thrust : 6412zzC3 Radial : 6312zzC3							
PSV-2520E														

End Suction Pump

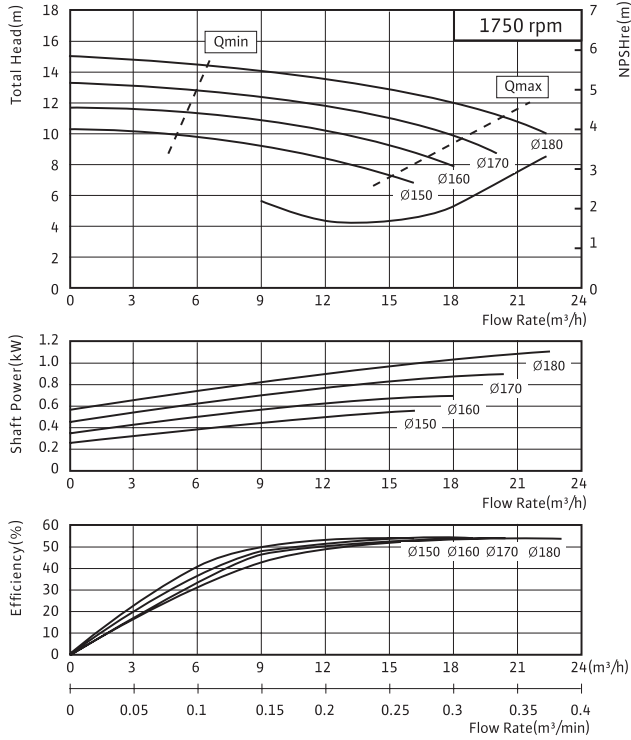
PSV Series



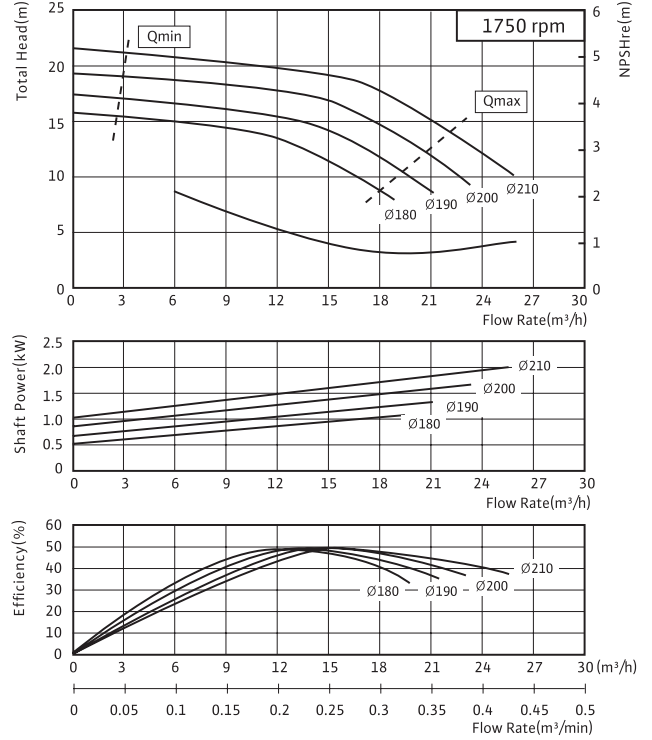
PSV-5040B / 5040C / 5040D / 5040E

성능곡선 4pole

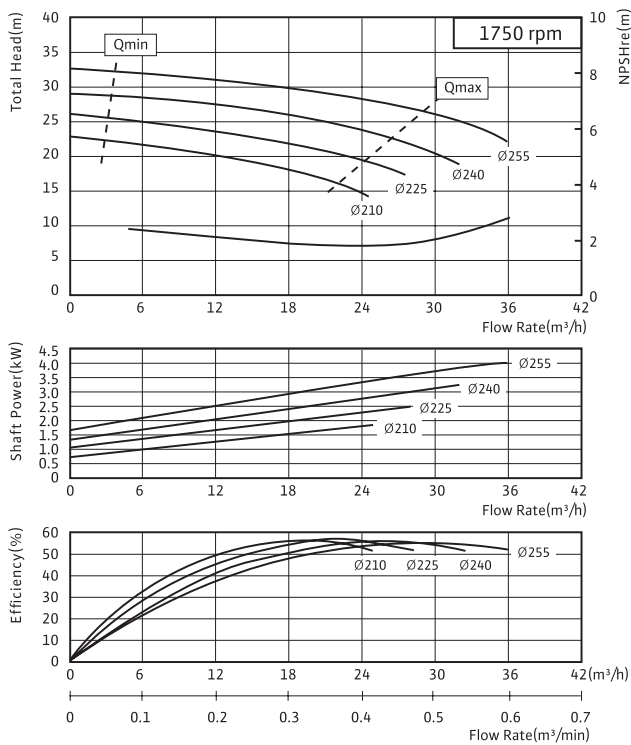
PSV - 5040B



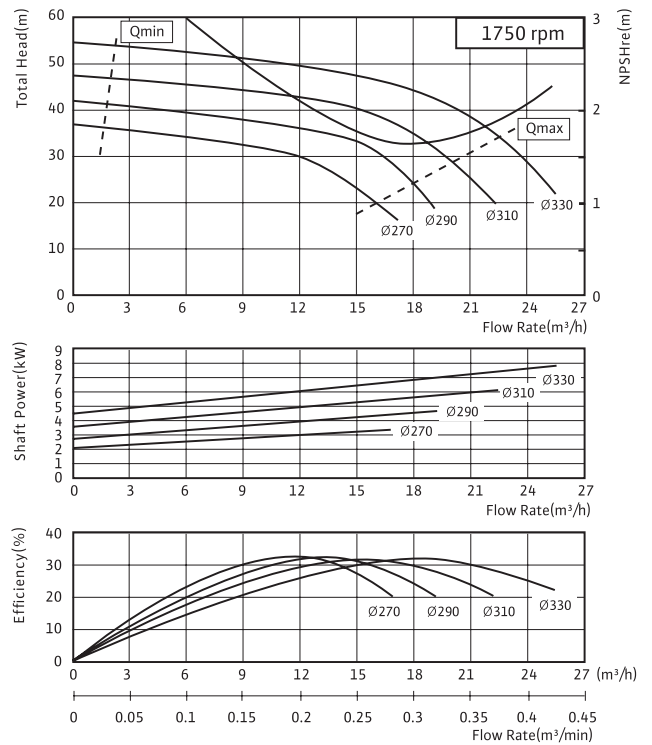
PSV - 5040C



PSV - 5040D



PSV - 5040E



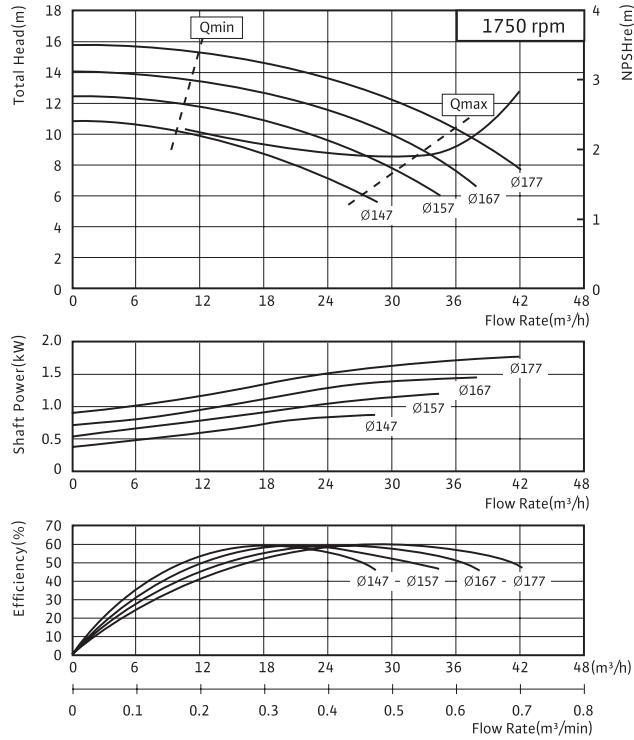
End Suction Pump

PSV Series

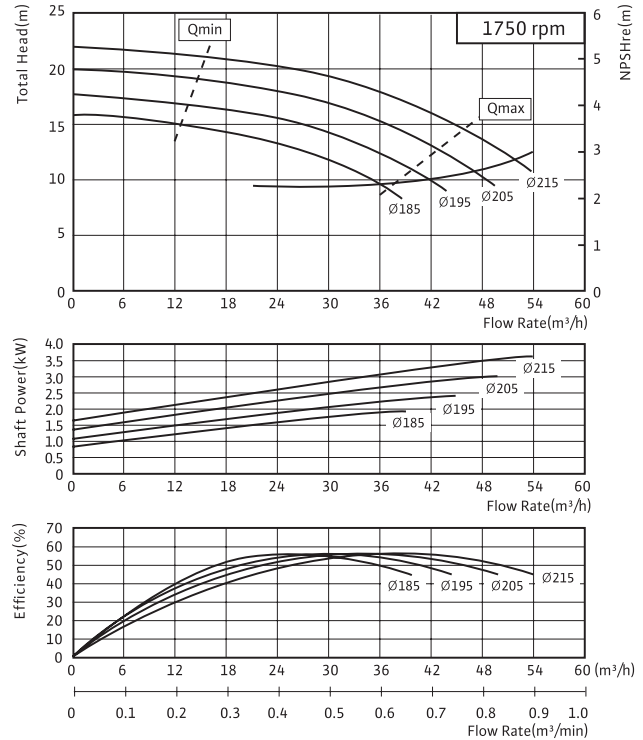
PSV-6550B / 6550C / 6550D / 6550E

성능곡선 4pole

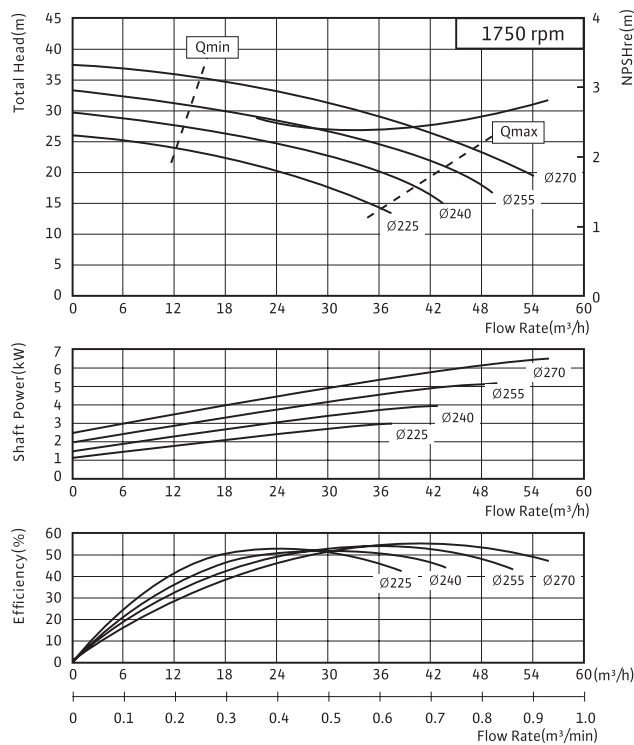
PSV - 6550B



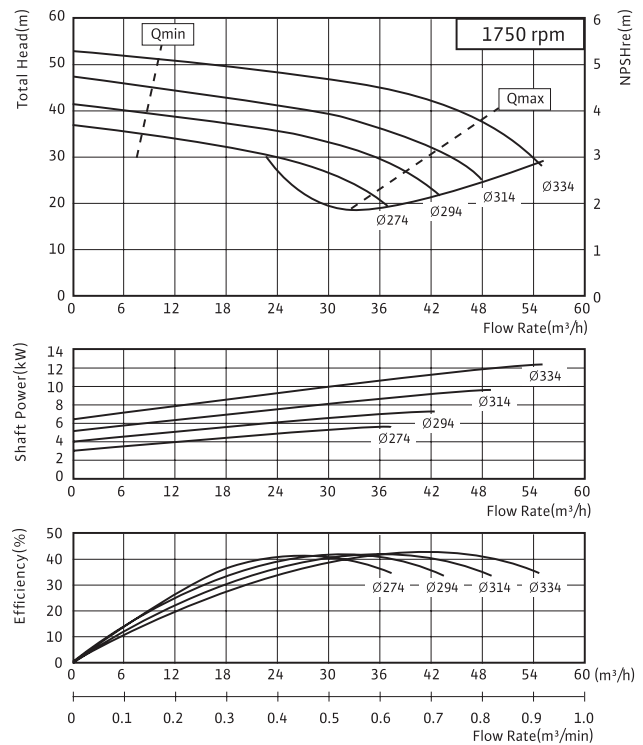
PSV - 6550C



PSV - 6550D



PSV - 6550E



End Suction Pump

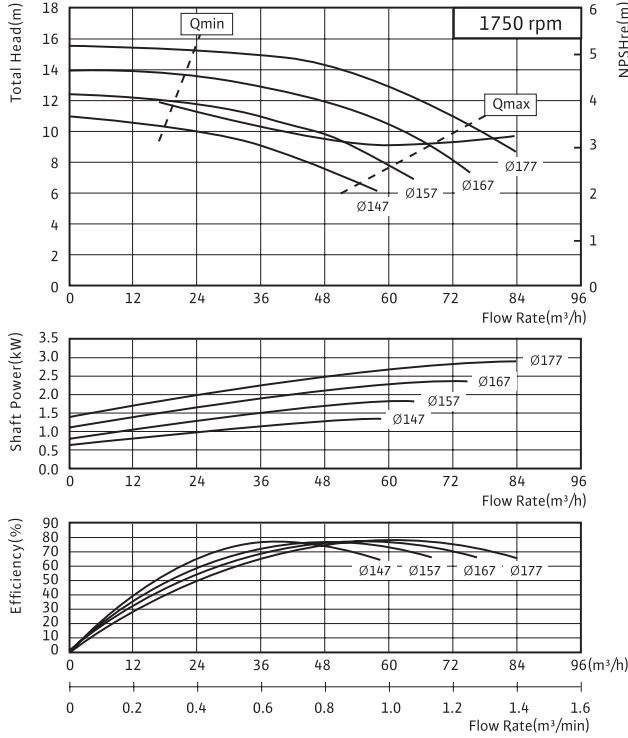
PSV Series



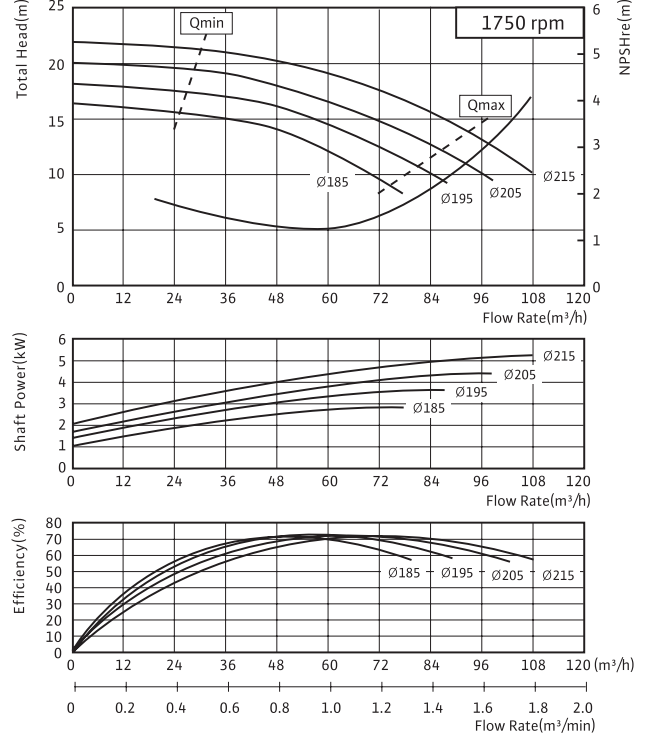
PSV-8065B / 8065C / 8065D / 8065E

성능곡선 4pole

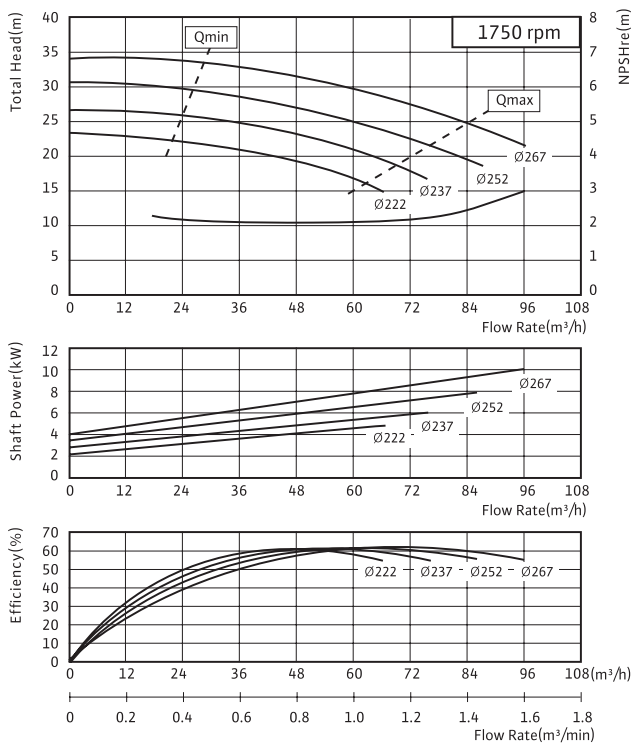
PSV - 8065B



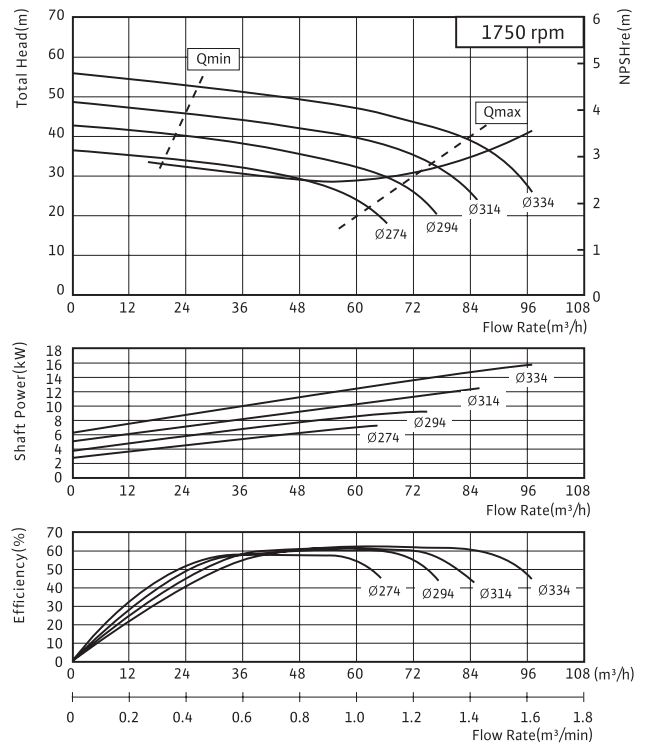
PSV - 8065C



PSV - 8065D



PSV - 8065E



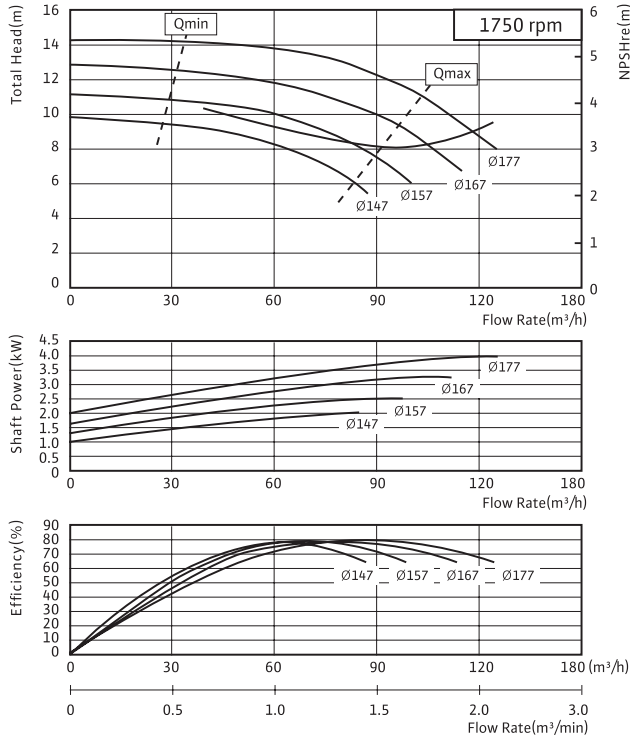
End Suction Pump

PSV Series

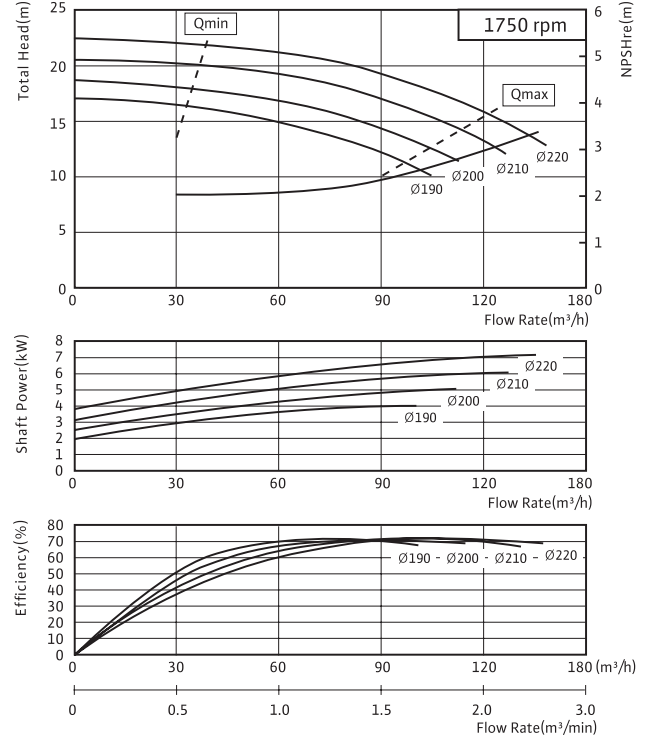
PSV-1080B / 1080C / 1080D / 1080E

성능곡선 4pole

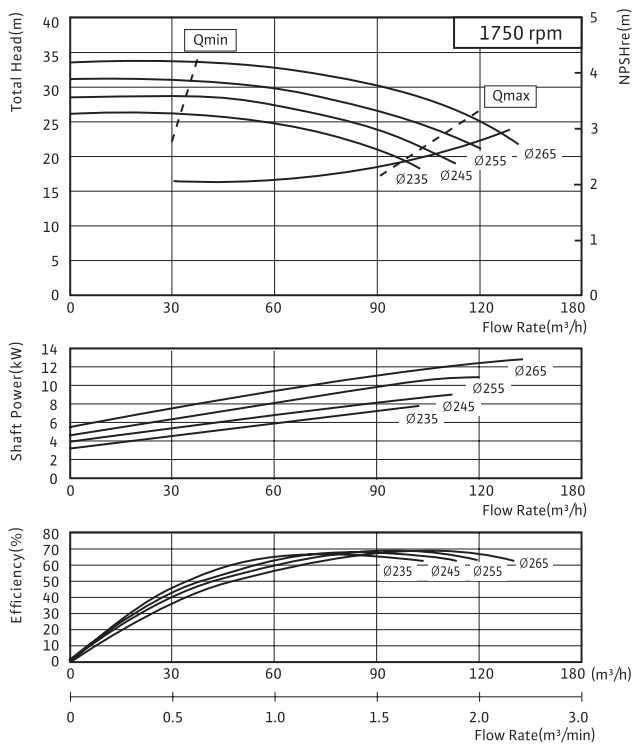
PSV - 1080B



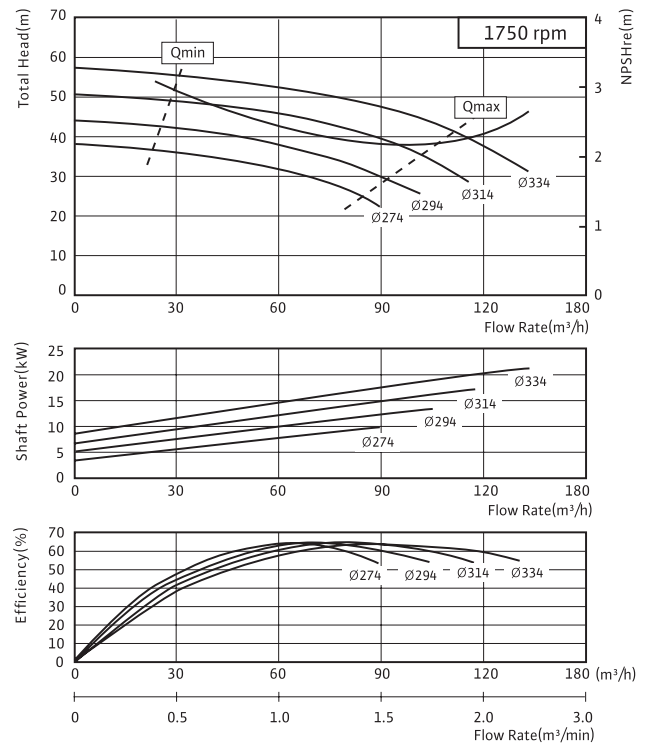
PSV - 1080C



PSV - 1080D



PSV - 1080E



End Suction Pump

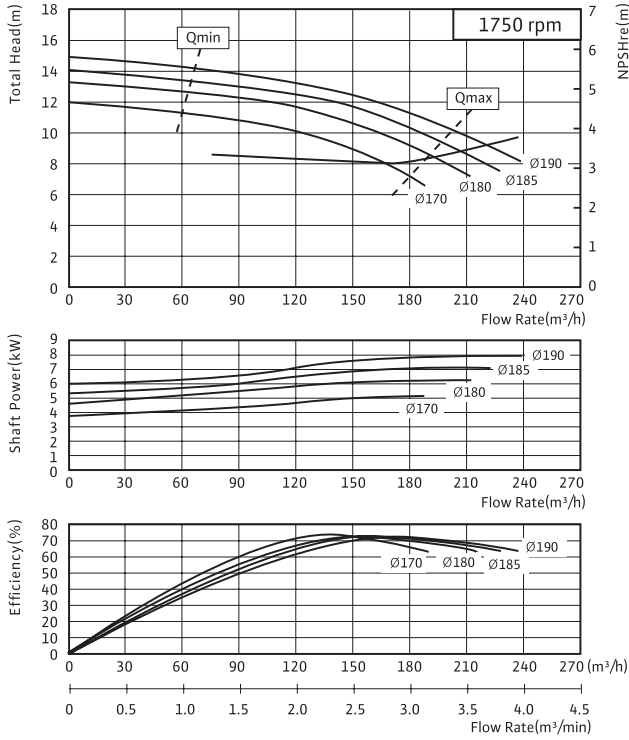
PSV Series



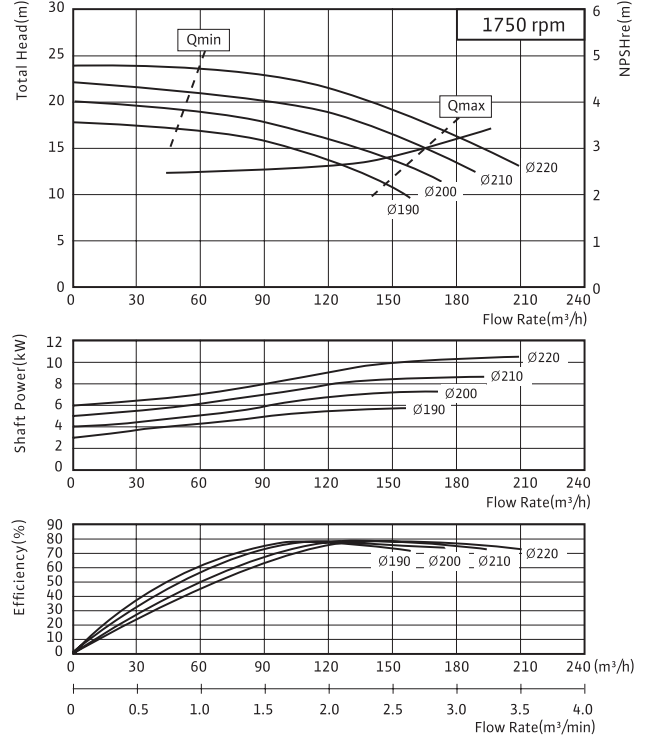
PSV-1210B / 1210C / 1210D / 1210E

성능곡선 4pole

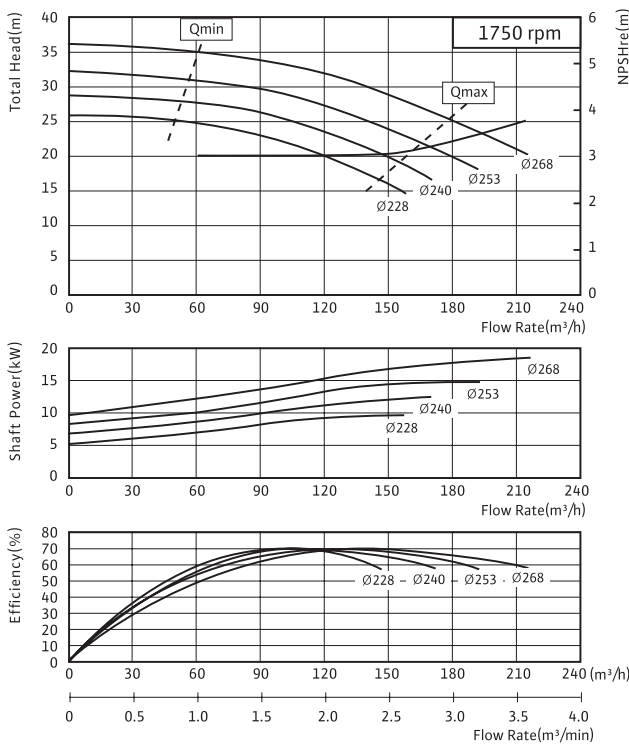
PSV - 1210B



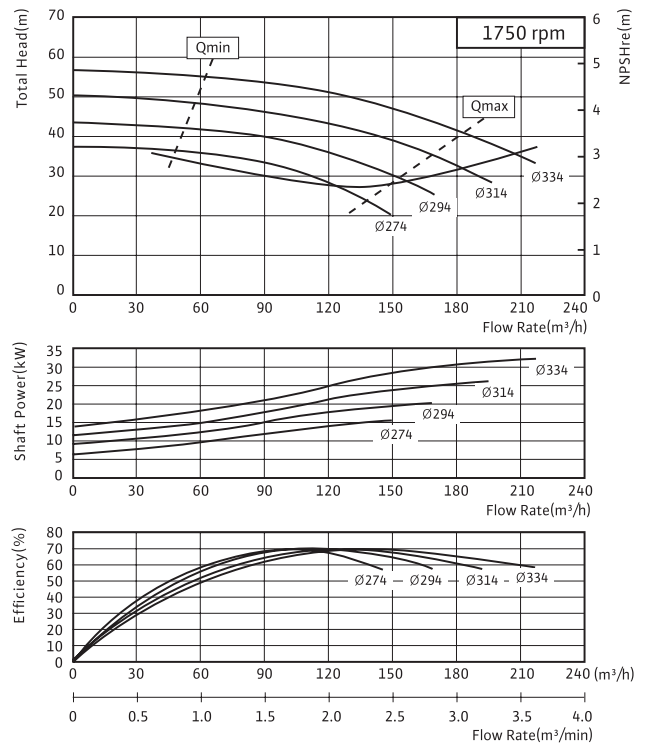
PSV - 1210C



PSV - 1210D



PSV - 1210E



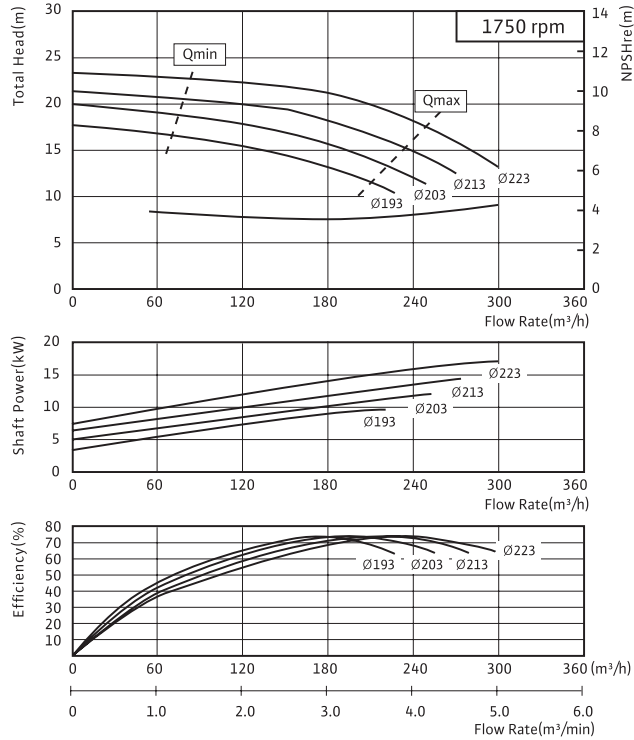
End Suction Pump

PSV Series

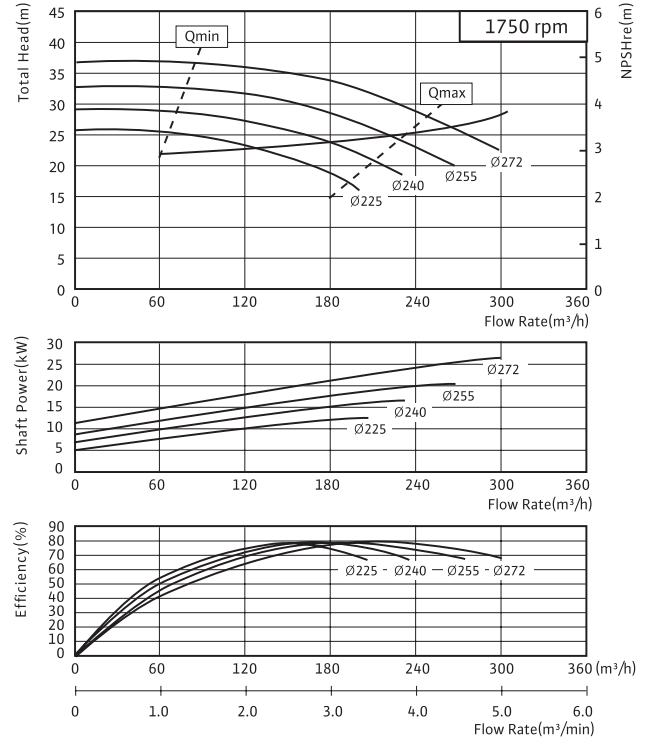
PSV-1512C / 1512D / 1512E / 1512F

성능곡선 4pole

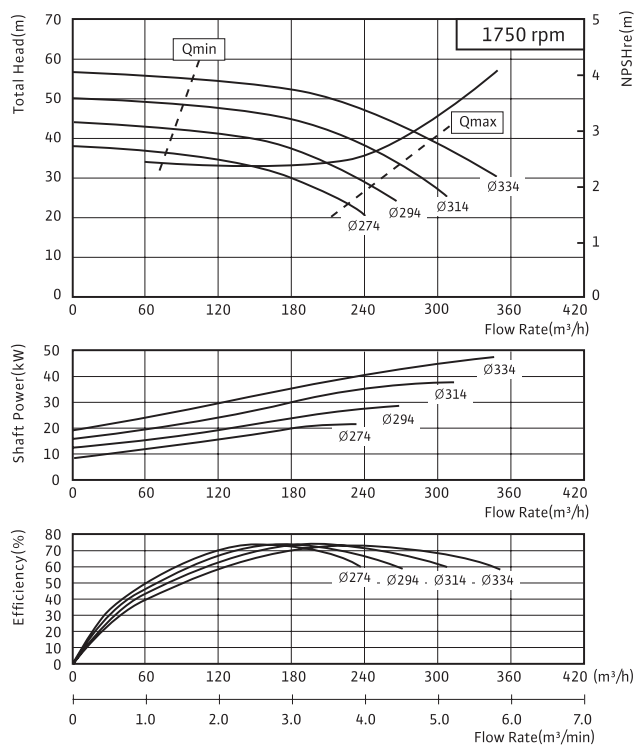
PSV - 1512C



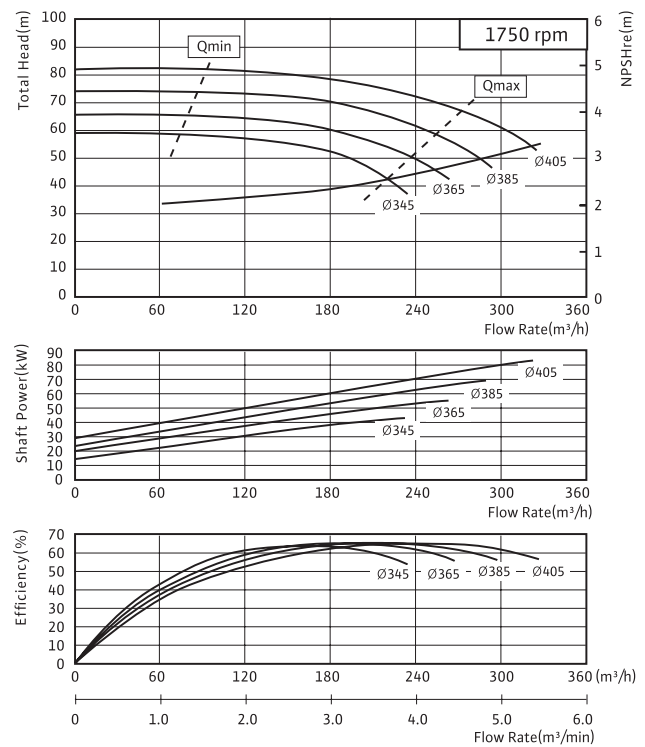
PSV - 1512D



PSV - 1512E



PSV - 1512F



End Suction Pump

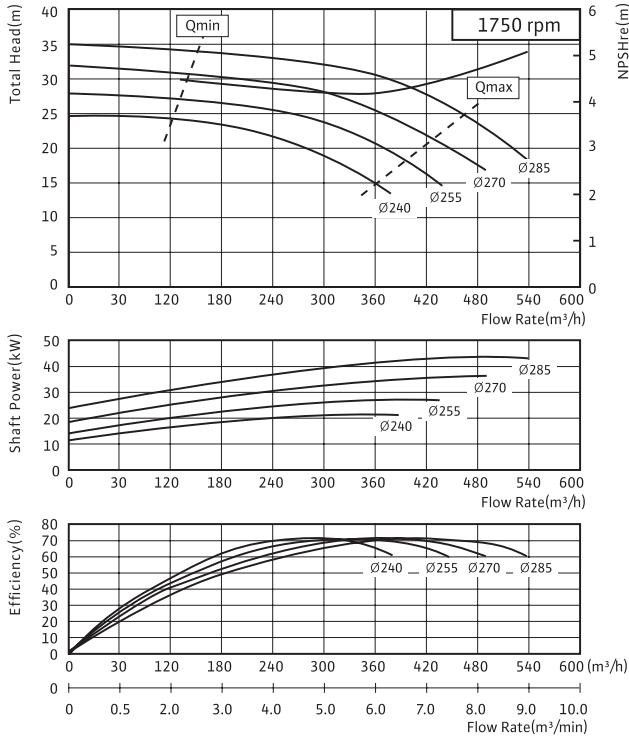
PSV Series



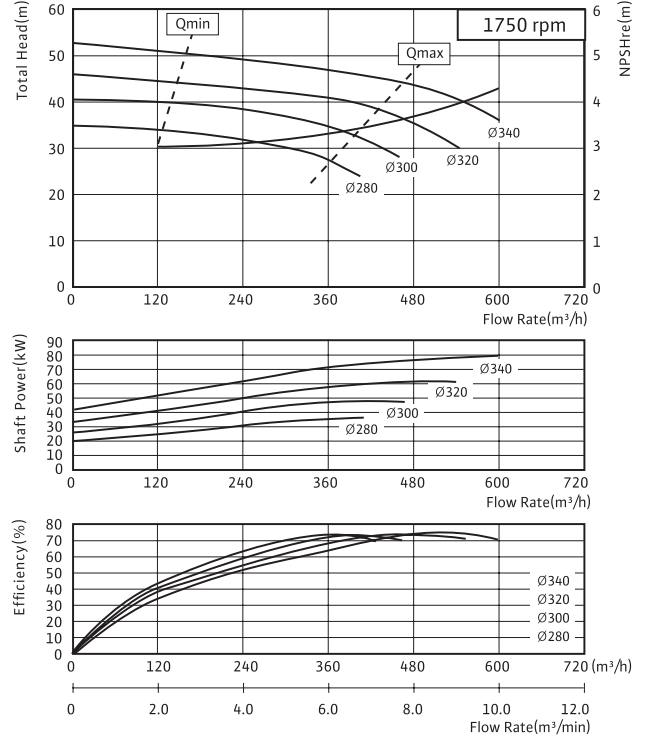
PSV-2015D / 2015E / 2015F / 2520E

성능곡선 4pole

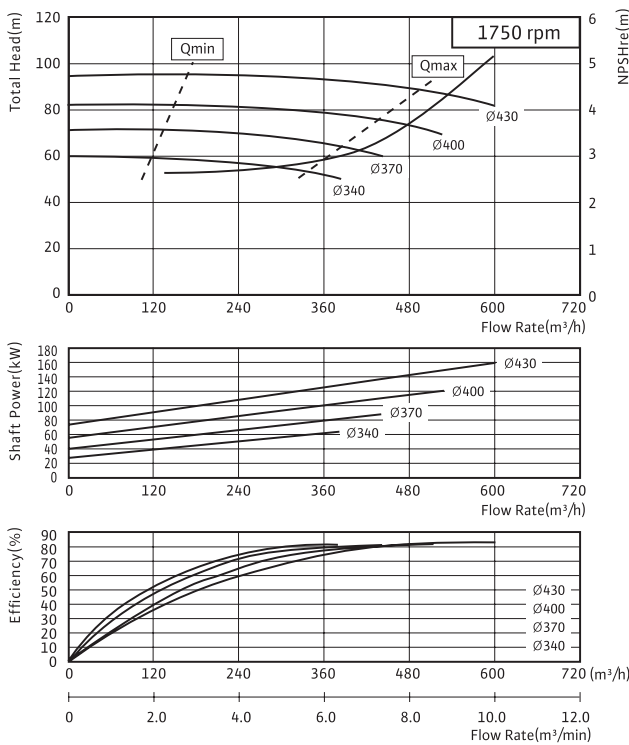
PSV - 2015D



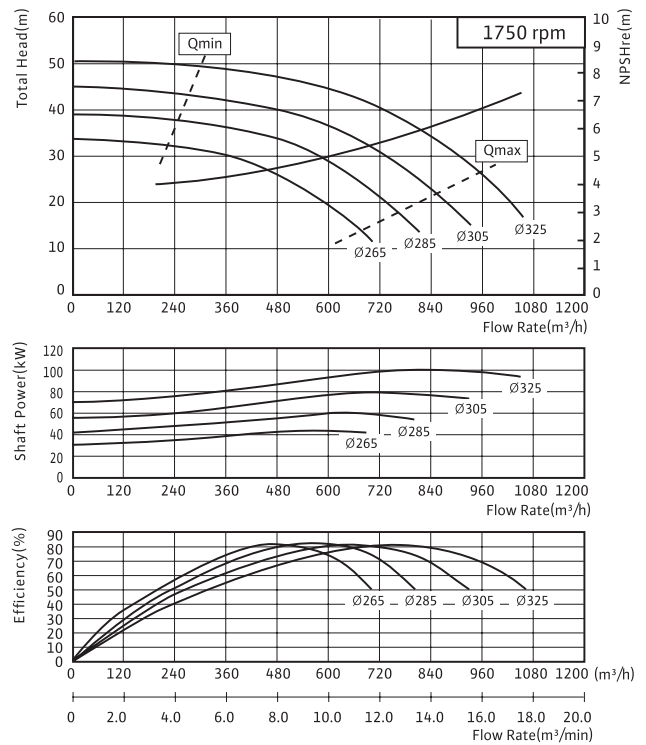
PSV - 2015E



PSV - 2015F



PSV - 2520E



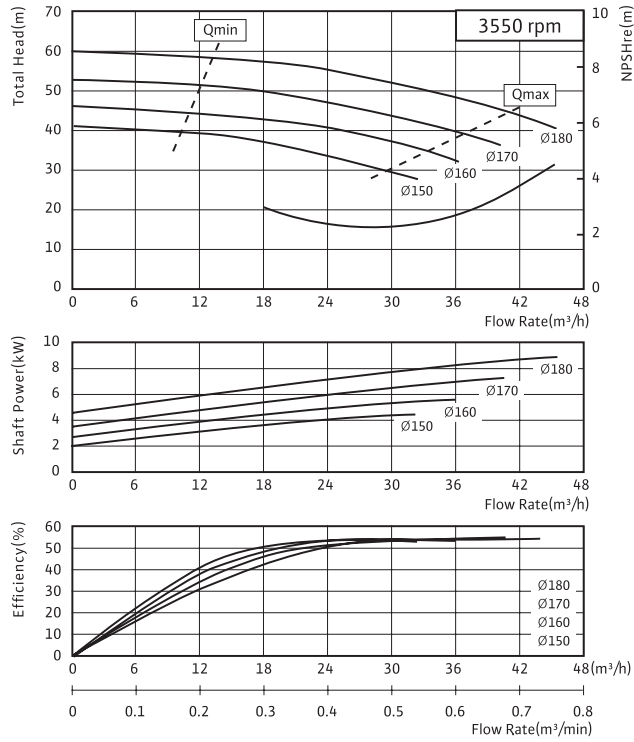
End Suction Pump

PSV Series

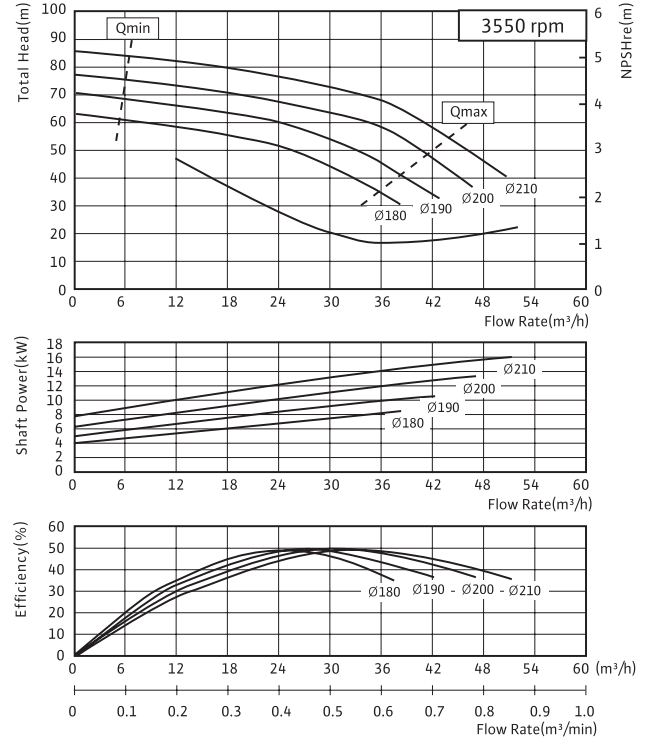
PSV-5040B / 5040C / 6550B / 6550C

성능곡선 2pole

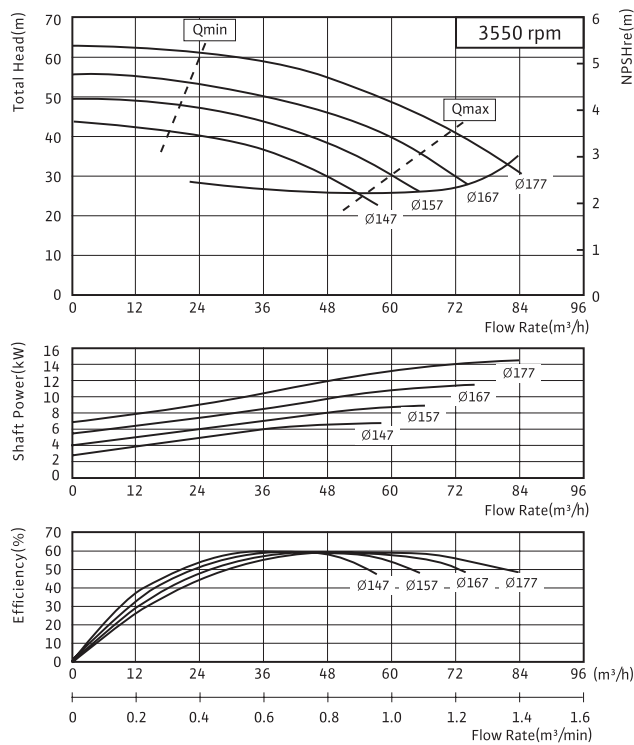
PSV - 5040B



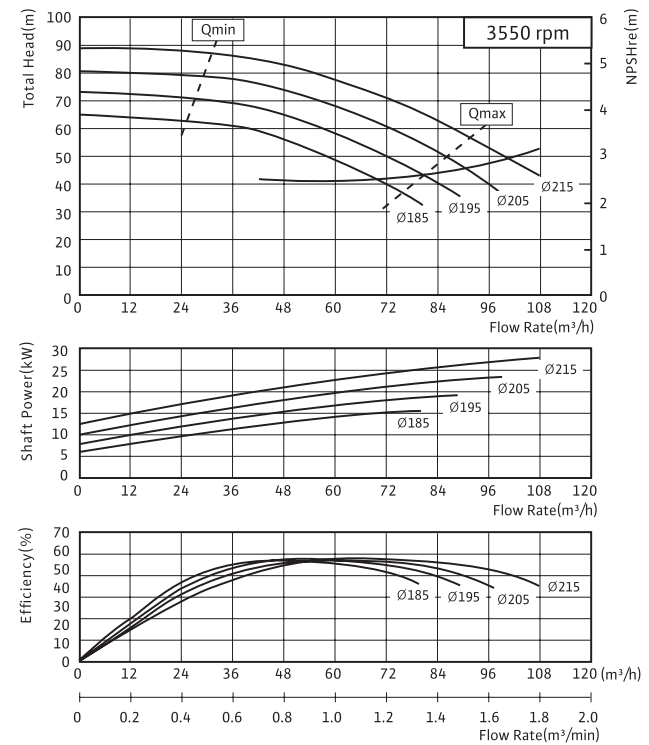
PSV - 5040C



PSV - 6550B



PSV - 6550C



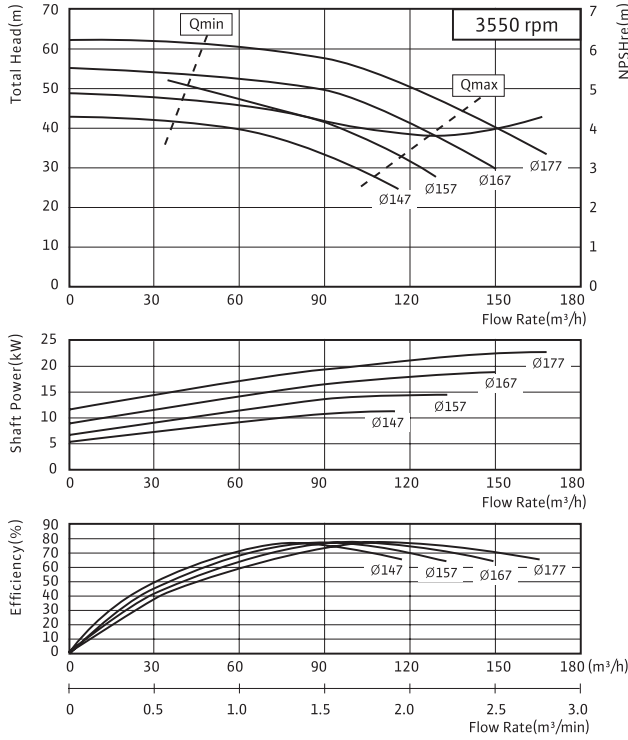
End Suction Pump

PSV Series

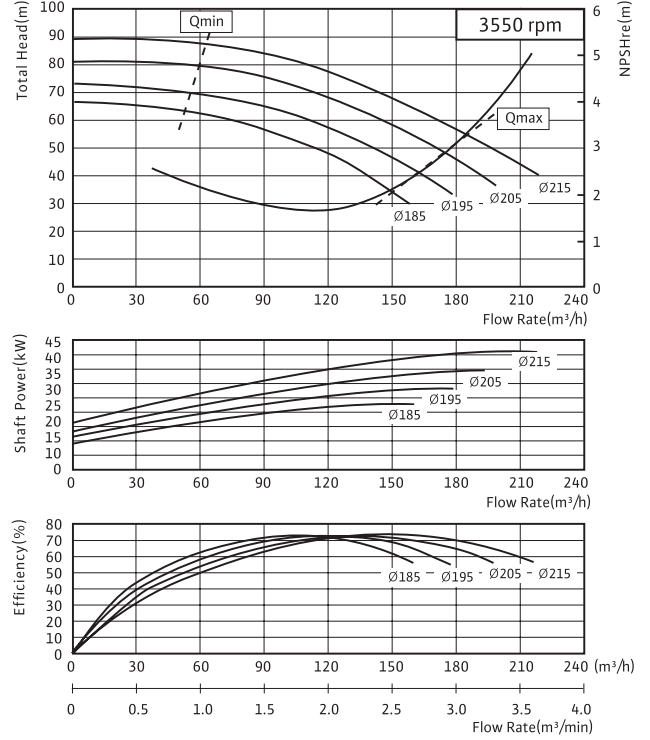


PSV-8065B / 8065C / 1080B / 1080C 성능곡선 2pole

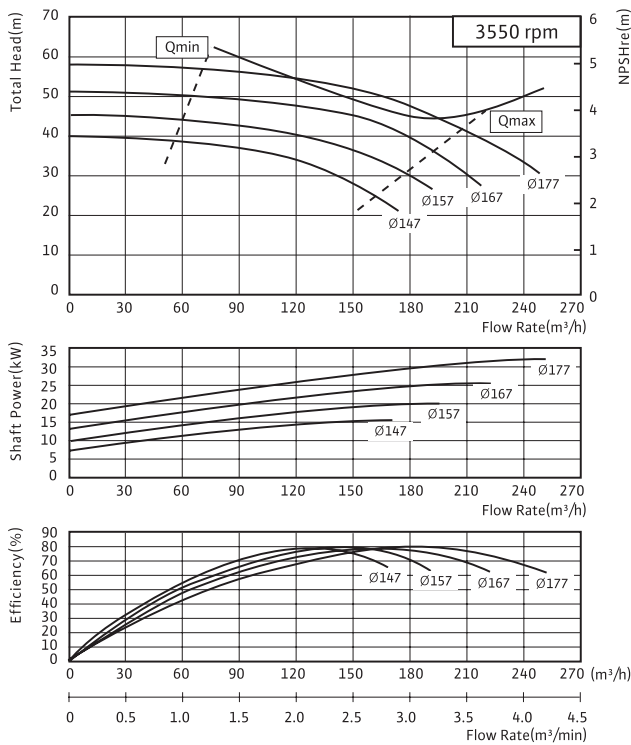
PSV - 8065B



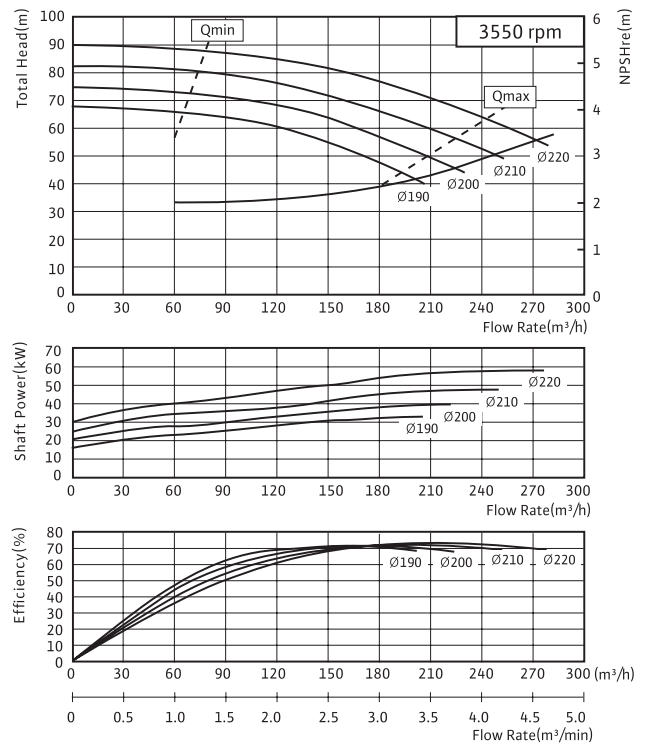
PSV - 8065C



PSV - 1080B



PSV - 1080C



Large Sized End Suction Pump

NLG Series

NLG Series

제품소개



적용범위

공기조화, 빌딩서비스, 순환용, 소방용, 관개용
제지설비용, 화학용, 선박용, 일반정수용

사용유체

냉·난방수, 응축수 등 점도가 높지 않고, 섬유질이나 마모를 일으킬 수 있는 이물질이 포함되지 않은 유체

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.

특장점

- 3차원 유동해석을 통한 고효율 임펠러
- 낮은 NPSHre 설계에 의한 높은 흡입성능

펌프사양

성능 제원표

최대유량	1600m ³ /h
최대양정	100 m
토출구경	150mm ~300mm
최대허용압력	16bar
최대사용온도	-20~120°C

재질사양표

케이싱	Cast Iron
임펠러	Cast Iron(special version: G-CuSn10)
샤프트	Stainless Steel
베어링 하우징	Cast Iron
케이싱링	G-CuSn10

Large Sized End Suction Pump

NLG Series

wilo

NLG Series

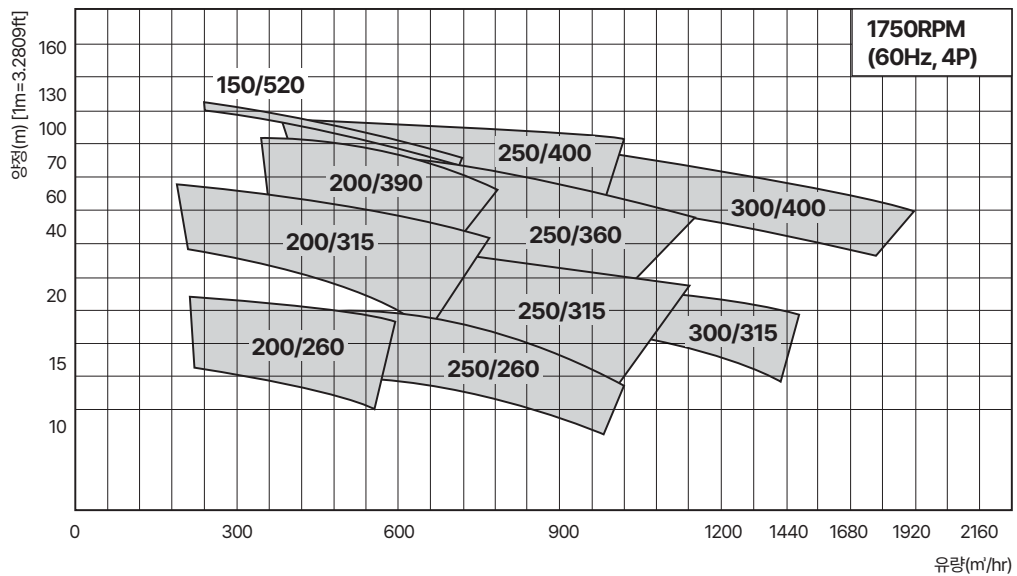
모델명 및 선정도

모델명 부여기준 (MODEL)

NLG 150/520 - 200/4

- NLG : 대형 단단 벌루트 펌프
- 150/ : 토출 구경
- 520 : 임펠러 공칭 외경(mm)
- -200 : 모터 동력(kW)
- /4 : 모터 극수(4극모터)

선정도 (SELECTION CHART)



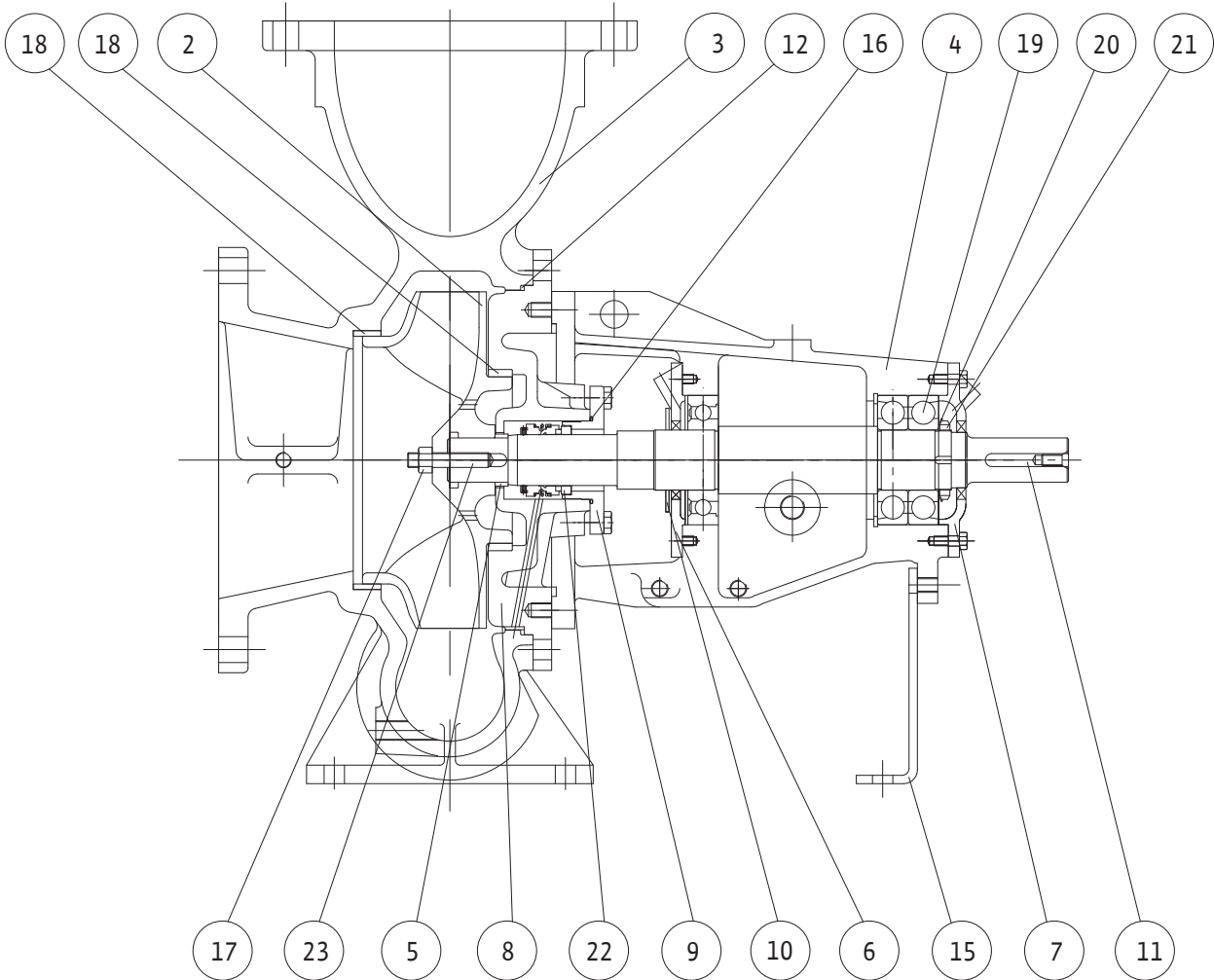
Large Sized End Suction Pump

NLG Series

NLG Series

단면도

Mechanical Seal type



No.	PART NAME	Q'ty
1	SHAFT	1
2	IMPELLER	1
3	CASING	1
4	BEARING HOUSING	1
5	IMPELLER SPACER	1
6	BEARING COVER(INNER)	1
7	BEARING COVER(OUTER)	1
8	BACK COVER	1
9	GLAND PLATE	1
10	WATER THROWER	1
11	KEY COUPLING	1

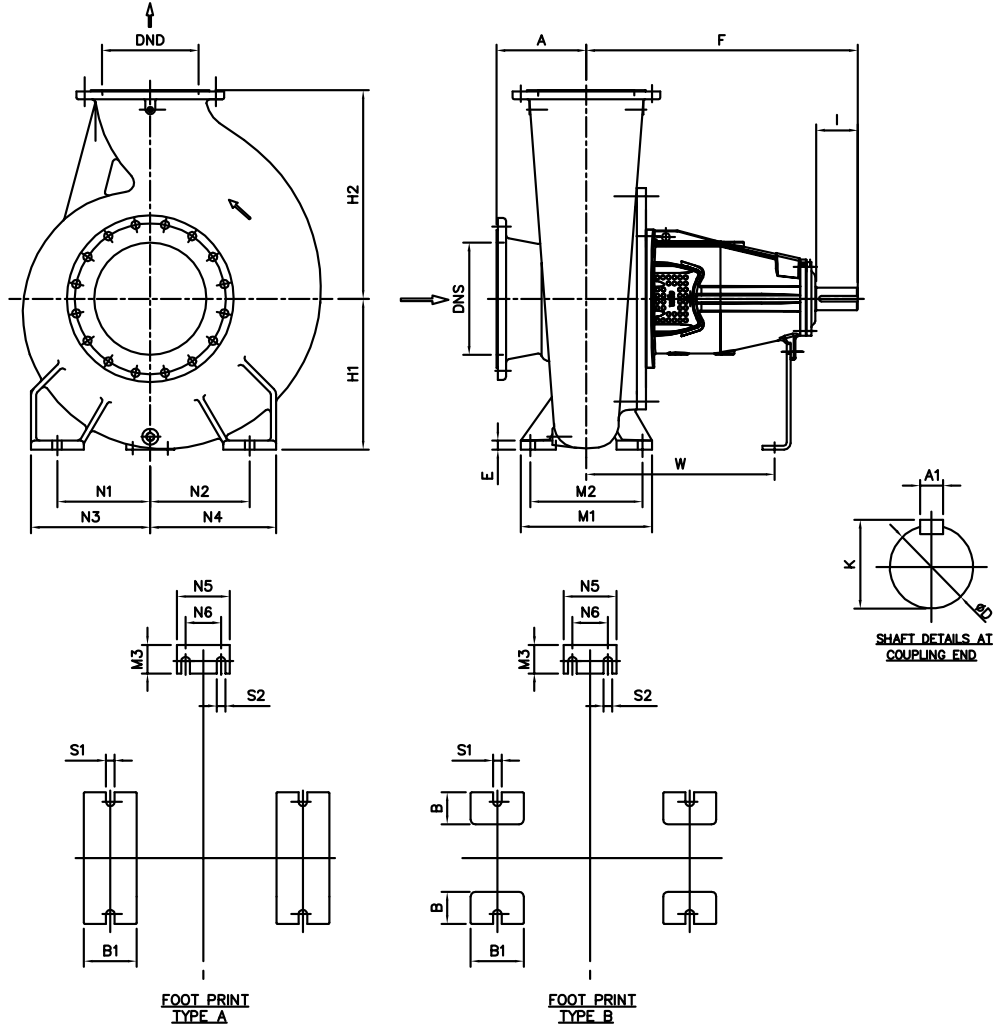
No.	PART NAME	Q'ty
12	O-RING(BACK COVER)	1
15	SUPPORT FOOT	1
16	O-RING(GLAND PLATE)	1
17	SCREW FOR IMPELLER	1
18	WEAR RING	1
19	BEARING	3
20	LOCK WASHER	1
21	LOCK NUT	1
22	MECHANICAL SEAL	1
23	IMPELLER KEY	1

Large Sized End Suction Pump

NLG Series



NLG Series 외형도 및 치수-Bare Shaft Pump



MODEL		Shaft Group	BORE(mm)		PUMP(mm)																SHAFT(mm)				WEIGHT kg	Foot Type		
			Suc.	Dis.	M1	M2	H1	H2	N1	N2	N3	N4	S1	S2	B1	M3	W	A	F	N5	N6	E	B	I			D	A1
NLG150/520	ES4	200	150	200	150	400	525	225	225	262.5	262.5	24	24	85	66	476	170	670.5	150	110	24	NO	110	48	14	51.5	470	A
NLG200/260	ES4	200	200	400	340	300	395	255	255	325	325	24	24	120	66	533	245	727	150	110	20	NO	110	48	14	51.5	305	A
NLG200/315	ES4	250	200	200	150	315	450	262.5	262.5	287.5	287.5	24	24	80	66	485	180	679	150	110	20	NO	110	48	14	51.5	335	A
NLG200/390	ES4	250	200	300	230	400	425	185	185	250	250	24	24	115	66	451	180	645	150	110	20	NO	110	48	14	51.5	360	A
NLG250/260	ES4	250	250	400	340	350	450	255	255	325	325	24	24	120	66	533	250	727	150	110	20	NO	110	48	14	51.5	340	A
NLG250/315	ES4	300	250	400	340	340	455	255	255	325	325	24	24	120	65	556	290	750	150	110	20	NO	110	48	14	51.5	425	A
NLG250/360	ES4	300	250	310	250	350	475	255	255	325	325	24	24	120	65	475	250	669	150	110	20	NO	110	48	14	51.5	350	A
NLG250/400	ES6	300	250	410	350	410	525	289	289	372	372	27	28	165	88	566.5	240	836	165	110	28	100	129	70	20	74.5	785	B
NLG300/315	ES4	300	300	400	340	385	500	255	255	325	325	24	28	120	66	543	272	737	160	110	20	NO	110	48	14	51.5	410	A
NLG300/400	ES6	350	300	410	350	410	575	290	310	372.5	392.5	27	28	165	88	576.5	280	846	165	110	28	100	129	70	20	74.5	830	B

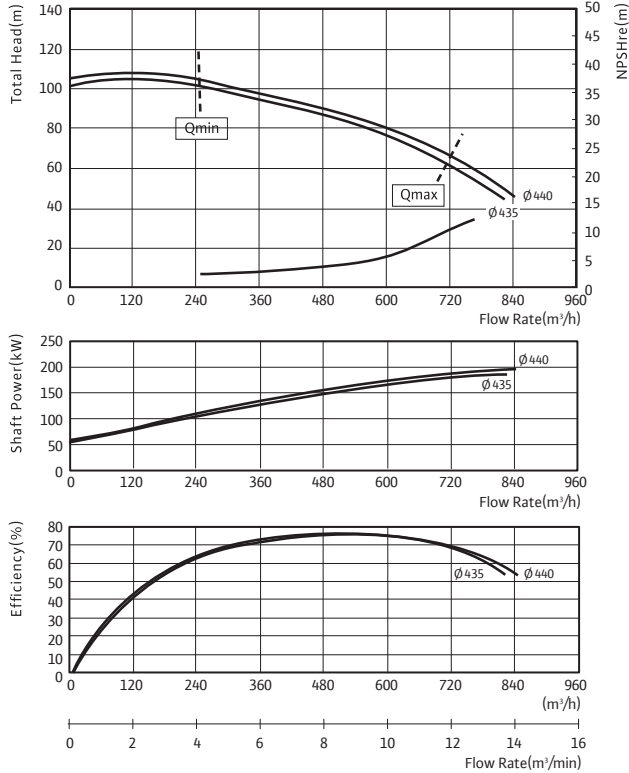
Large Sized End Suction Pump

NLG Series

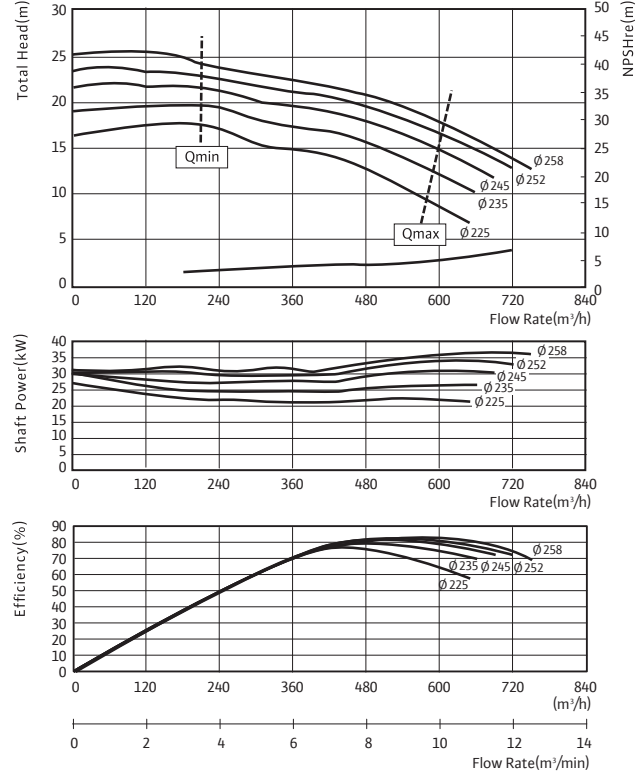
NLG 150/520, 200/260, 200/315, 200/390

성능곡선 4pole

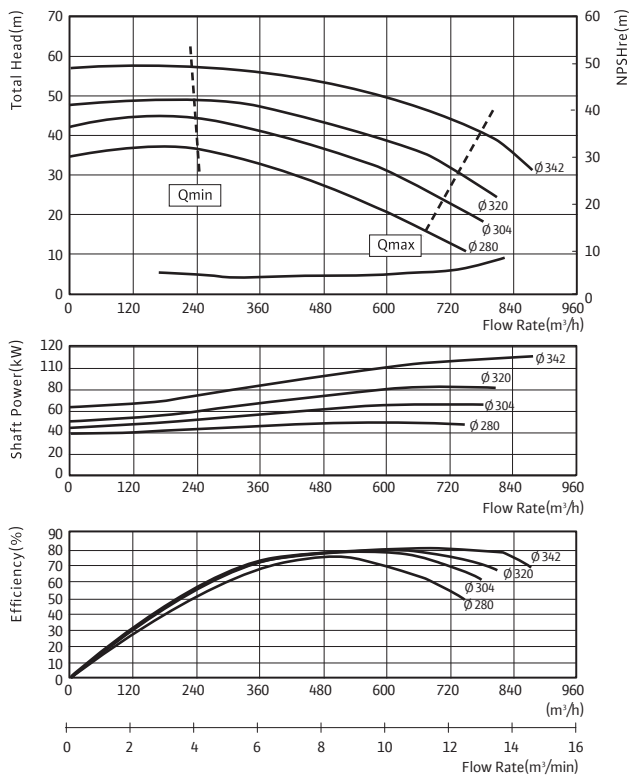
NLG 150/520



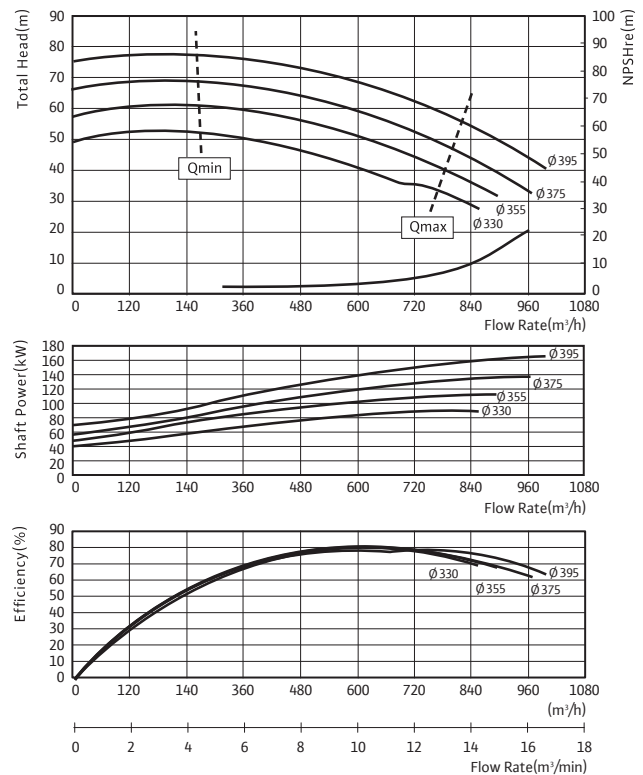
NLG 200/260



NLG 200/315



NLG 200/390



Large Sized End Suction Pump

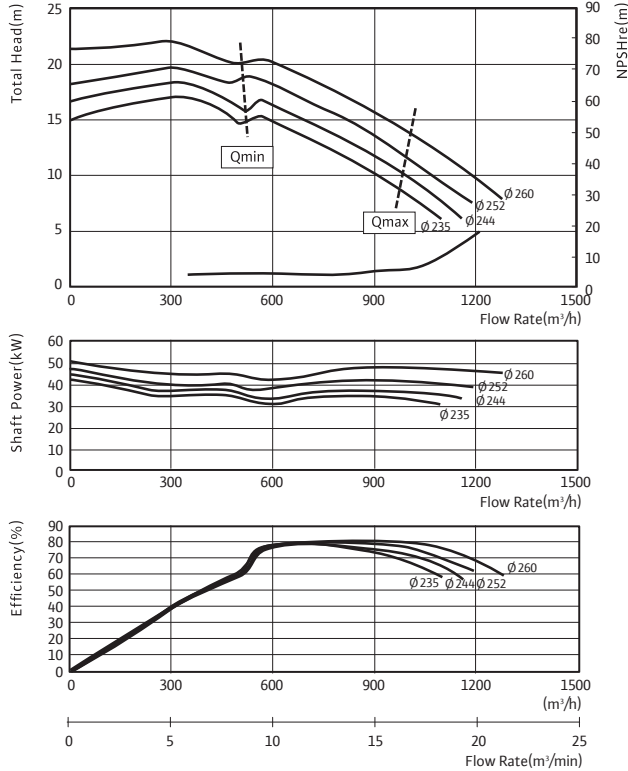
NLG Series



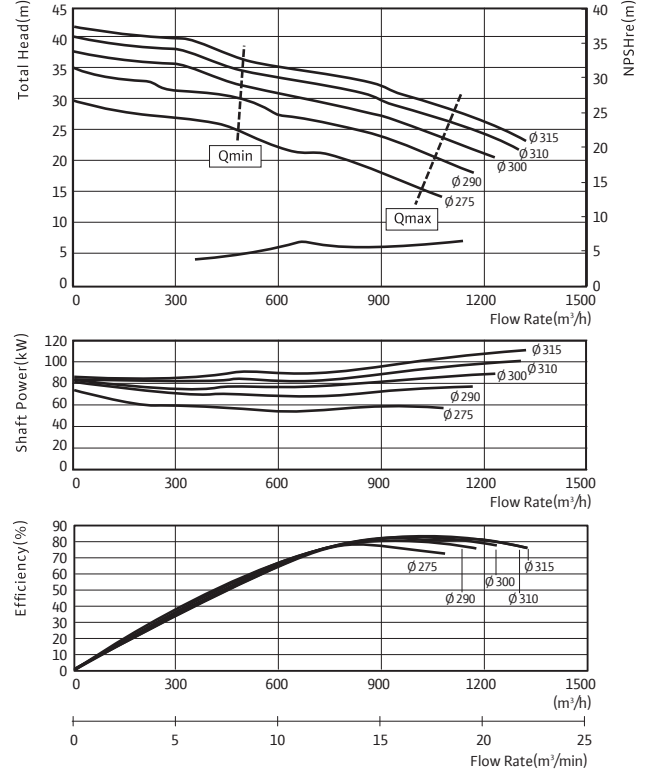
NLG 250/260, 250/315, 250/360, 250/400

성능곡선 4pole

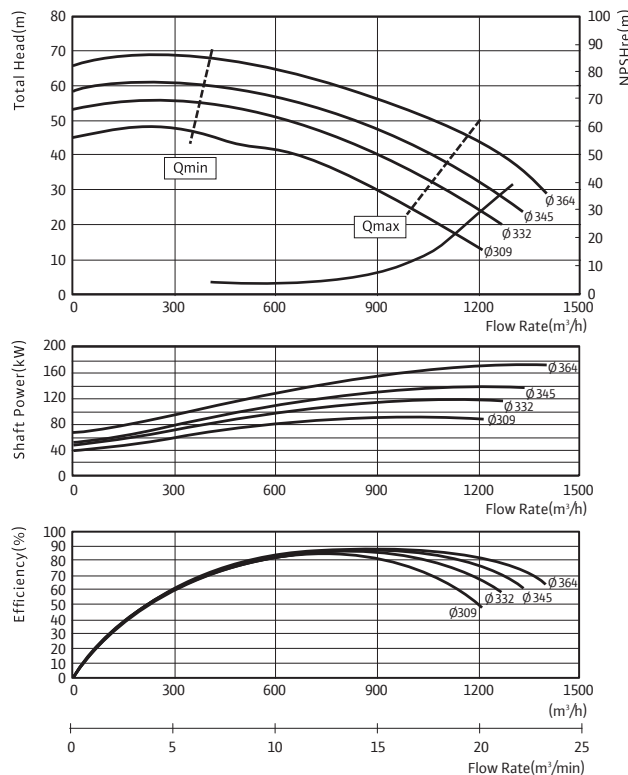
NLG 250/260



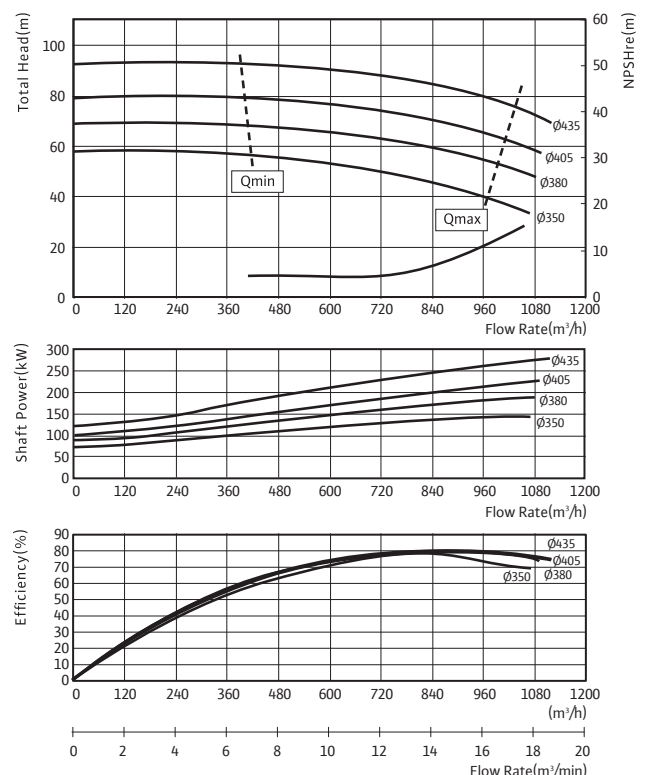
NLG 250/315



NLG 250/360



NLG 250/400



Large Sized End Suction Pump

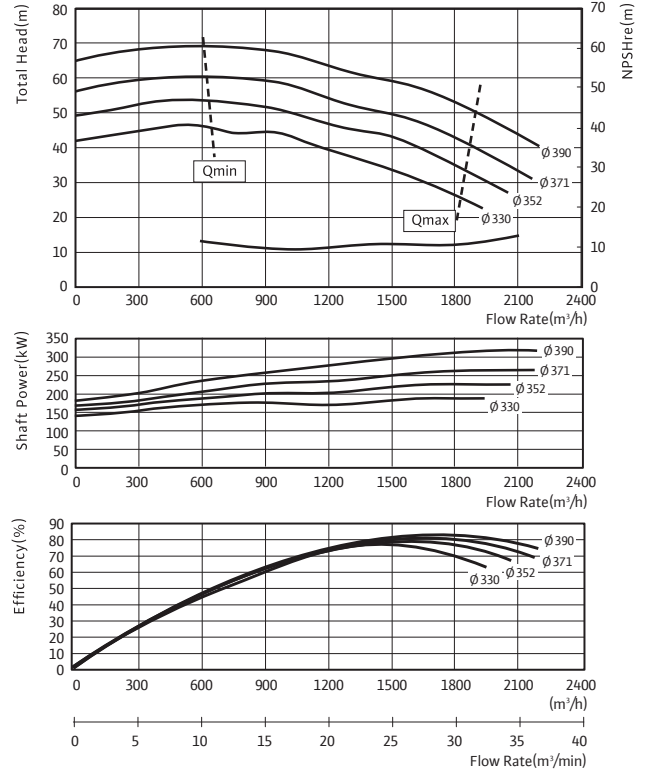
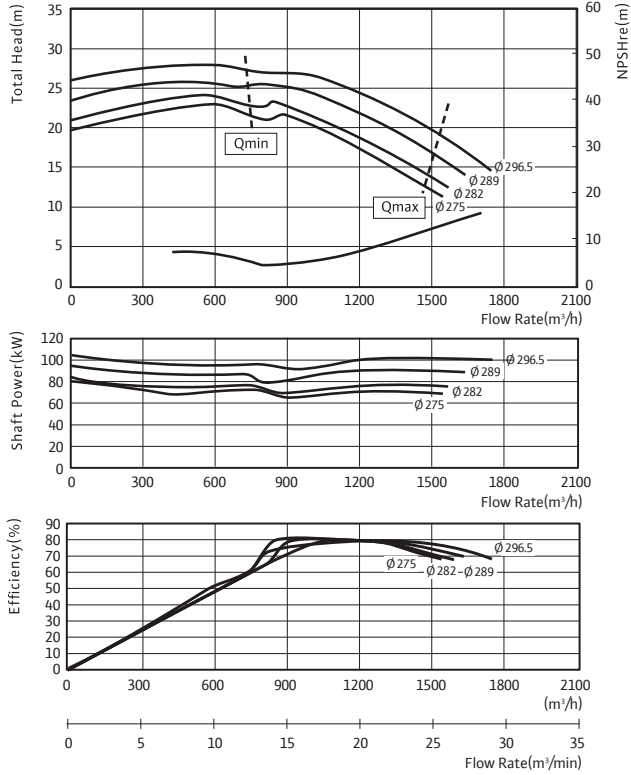
NLG Series

NLG 300/315, 300/400

성능곡선 4pole

NLG 300/315

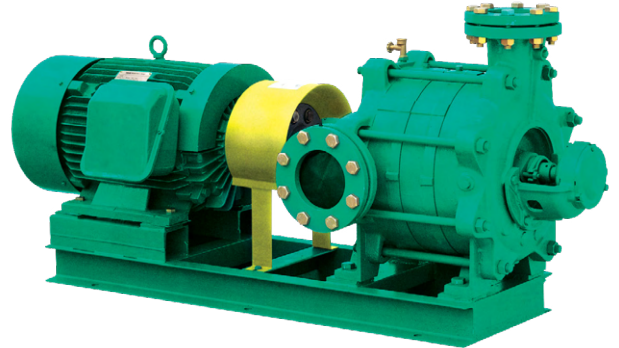
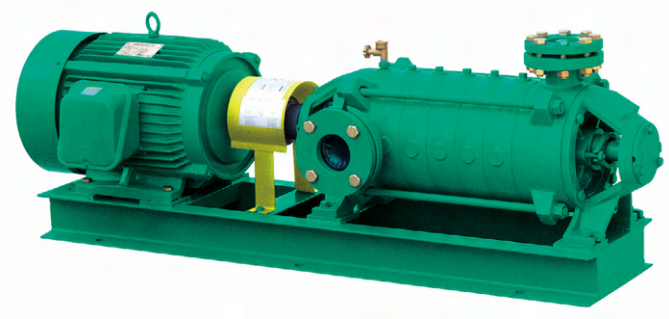
NLG 300/400



Multi-Stage Pumps

Ring Section Pumps

Multi-Stage Pump 제품소개



PMT Series

적용범위

- 수도 : 취수용, 송수용, 배수용, 가압용
- 건축 : 급-배수용, 냉각수및 냉온수의 순환용, 소화설비용
- 공장 : 각종 급-배수용, 보일러 급수용
- 농업 : 양수배수용, 스프링클러용

구조

- 다단 터빈 펌프로 가이드 베인 분리형 구조
- 압력을 받는 흡입케이싱, 중간케이싱, 토출케이싱은 표준 재질을 GC250(GC200)으로 하여 강도를 높였으며 각각의 케이싱은 오링으로 밀봉
- 임펠러를 조합시켜 다양한 사양점에서 펌프 선정 가능
- 축은 슬리브 및 임펠러 보스등에 의하여 보호되고 있으므로 축의 마모가 적음
- Back pull-out구조로 유지보수가 편리
- 밸런싱 Hole을 임펠러에 형성하여 축추력을 감소

특장점

- 콤팩트한 고성능 설계에 따라, 설치비의 절감과 에너지 절감이 가능
- 설치 다리는 베어링 하우징에 일체형 구조로 흡,토출구를 상,좌우방향으로 설치 가능하여 배관이 용이
- 가정용수 공급용 및 빌딩 수처리용
- 축봉 방식은 용도에 따라 그랜드 패킹 또는 Mechanical Seal 방식 선택 가능
- 볼 베어링 방식을 채택하여 축 방향의 밀림(End play)을 줄였으며, 베어링에 급유 불필요
- 밸런싱 Hole을 임펠러에 형성하여 축추력을 감소

PMV Series

적용범위

- 수도 : 취수용, 송수용, 배수용, 가압용
- 건축 : 급-배수용, 냉각수및 냉온수의 순환용, 소화설비용
- 공장 : 각종 급-배수용, 보일러 급수용
- 농업 : 양수배수용, 스프링클러용

구조

- 다단 터빈 펌프로 가이드 베인 일체형 구조
- 볼베어링 방식을 채택한 구조
- 펌프의 설치다리를 케이싱상의 몸체에 설치
- 감압파이프 설치 구조 (3단이상 적용)
- 플랜지는 RF방식을 채택

특장점

- 넓은 범위에 운전 가능하도록 설계 및 제작
- 임펠러의 입구에서 유체의 흐름을 안정시켜 흡입성능이 우수
- 양단 베어링 지지 구조로 적은 진동 및 소음 발생
- 축봉 방식은 용도에 따라 그랜드 패킹 또는 Mechanical Seal 방식 선택 가능
- 볼 베어링 방식을 채택하여 축 방향의 밀림(End play)을 줄였으며, 베어링에 급유 불필요
- 밸런싱 Hole을 임펠러에 형성하여 축추력을 감소

Multi-Stage Pumps

Ring Section Pumps

Multi-Stage Pump

제품소개

취급액 (0~80°C의 청수, pH6~8)

이외의 고온, 특수액은 사용 불가능

고온 또는 청수가 아닌 액을 취급할 경우에는 이송액의 특성(온도, 농도, 고형물의 유·무)과 사용조건에 따라 내마모성, 내식성이 현저히 변화되는 경우가 있으므로 반드시 영업 또는 공장으로 문의

흡입측 조건

흡입 전압정 또는 압입 압력은 아래에 따름

흡입 전압정 허용치		
액의 온도	흡입구경	흡입 전압정
0°C~40°C	50 ~ 80mm	-6m 이내
	100 ~ 150mm	-5.5m 이내

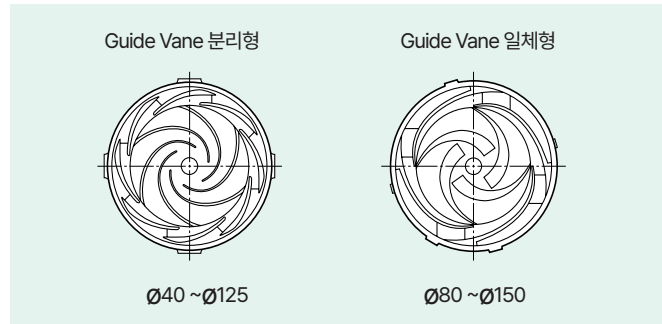
운전조건

- 기동반복이 빈번한 자동제어용으로 펌프를 사용할 경우에는 임펠러의 파손 우려가 있으므로 임펠러 재질을 BC6급 이상으로 사용
- 자동제어용으로 사용할 경우 기동반복이 시간당 12회를 넘지 않아야 함
- 수격현상 (워터해머)이 발생하지 않도록 배관을 구성

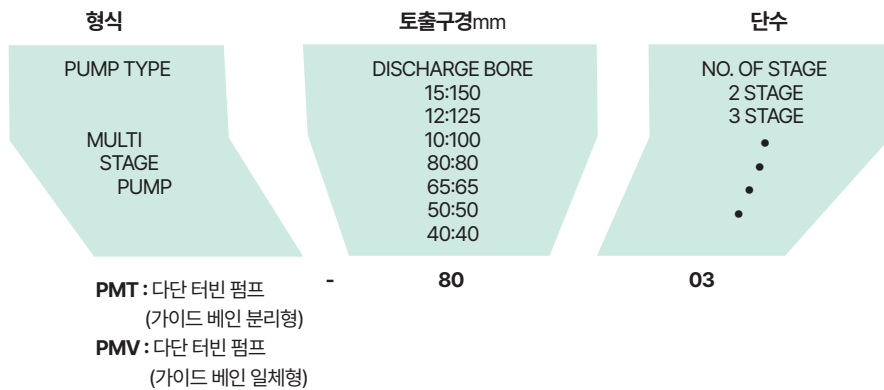
주문사항 (Option)

- 구조변경 : Mechanical seal 구조
- 재질변경 : Shaft-ST304
Impeller-BC6

다단펌프 CASING 구조



모델명 부여기준 (MODEL)

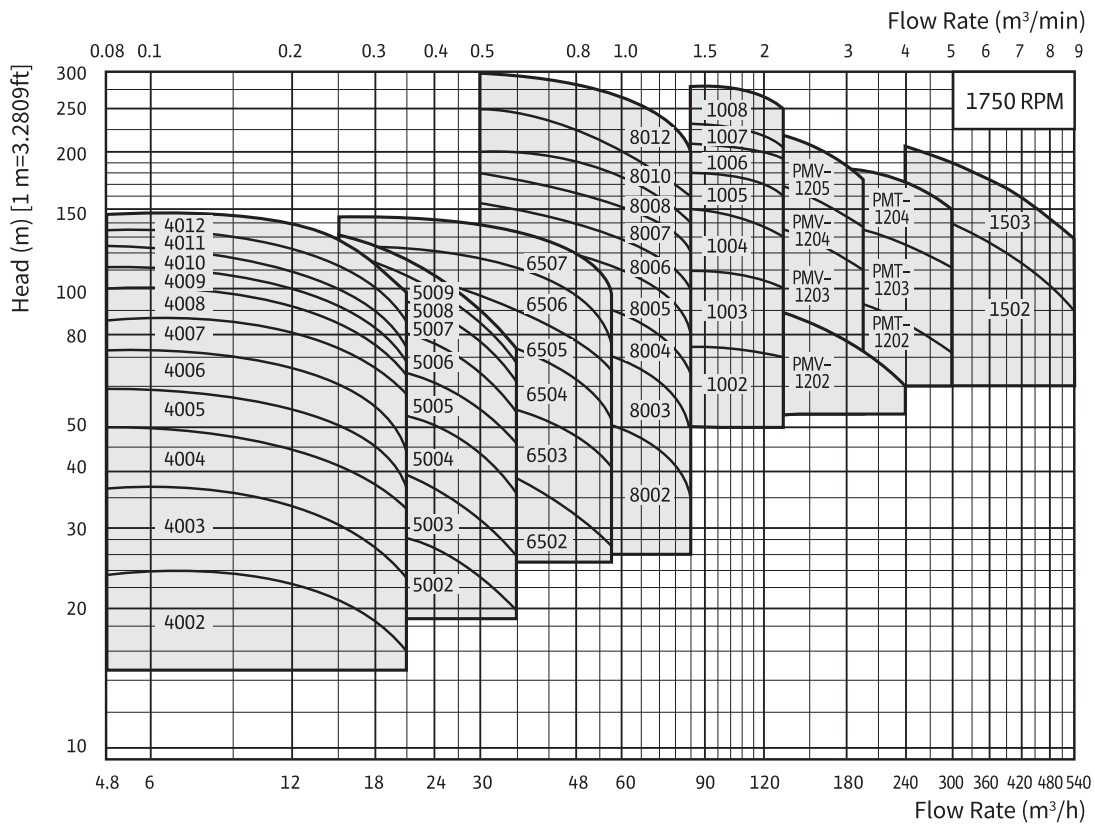
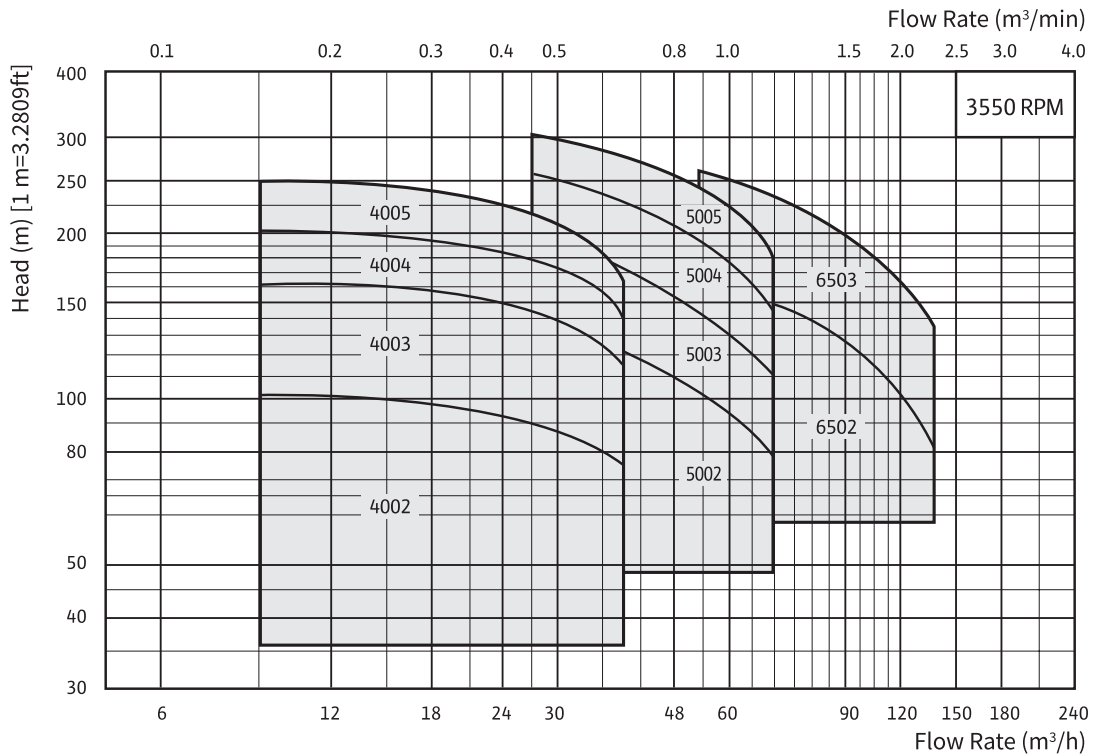


Multi-Stage Pumps

Ring Section Pumps



Multi-Stage Pump 선정도



* 40~100 Series는 PMT

Multi-Stage Pumps

Ring Section Pumps

Multi-Stage Pump

선정표

H / Q	4.8	6	9	12	15	18	24	30	36	42	48	54	60	72	84	H / Q
280									PMT-8012 75 17	PMT-8012 75 18	PMT-8012 75 19	PMT-1008 110 21	PMT-1008 132 21	PMT-1008 132 22	PMT-1008 132 22	280
260									PMT-8012 55 17	PMT-8012 75 18	PMT-8012 75 19	PMT-8012 75 20	PMT-8012 75 27	PMT-1008 110 22	PMT-1008 132 22	260
240									PMT-8010 55 17	PMT-8010 75 19	PMT-8010 75 19	PMT-8010 75 20	PMT-8012 75 27	PMT-8012 75 32	PMT-1007 110 22	240
220								PMV-8007 45 17	PMT(V)-8010(7) 45(55) 17	PMT(V)-8010(7) 55 18	PMT(V)-8010(7) 55(75) 19	PMT-8010 75 20	PMT-8010 75 27	PMT-8012 75 32	PMT-1007 90 22	220
200								PMV-8006 45 17	PMT(V)-8008(6) 45 17	PMT(V)-8010(7) 45(55) 18	PMT(V)-8010(7) 55 19	PMT(V)-8010(7) 55(75) 20	PMT(V)-8010(7) 55(75) 2.7(2.4)	PMT-8010 75 32	PMT-8012 75 37	200
180								PMV-8006 37 17	PMT(V)-8008(6) 45 17	PMT(V)-8008(6) 45 18	PMT(V)-8008(6) 45 19	PMT(V)-8008(6) 55 20	PMT(V)-8010(7) 55 27(2.4)	PMT(V)-8010(7) 75 3.2(2.6)	PMT-8010 75 37	180
160								PMV-8005 37 17	PMT(V)-8007(5) 37 17	PMT(V)-8007(5) 37(45) 18	PMT(V)-8007(5) 37(45) 19	PMT(V)-8007(5) 45 20	PMT(V)-8007(5) 45(55) 2.7(2.4)	PMT(V)-8008(6) 55 3.2(2.6)	PMT-8010 75 37	160
150								PMV-8005 30 17	PMT(V)-8007(5) 37 17	PMT(V)-8007(5) 37(45) 18	PMT(V)-8007(5) 37(45) 19	PMT(V)-8007(5) 45 20	PMT(V)-8007(6) 45(55) 2.7(2.4)	PMT(V)-8008(6) 55 3.2(2.6)	PMT-8010 75 37	150
145	PMT-4012 75 12	PMT-4012 75 13						PMV-8005 30 17	PMT(V)-8006(5) 37 17	PMT(V)-8006(5) 37 18	PMT(V)-8006(5) 37(45) 19	PMT(V)-8007(5) 37(45) 20	PMT(V)-8007(5) 45 27(2.4)	PMT(V)-8008(5) 55 3.2(2.6)	PMT-8010 55 37	145
140	PMT-4012 75 12	PMT-4012 75 13	PMT-4012 11 14					PMV-8005 37 17	PMT(V)-8006(5) 37 17	PMT(V)-8006(5) 37 18	PMT(V)-8006(5) 37 19	PMT(V)-8007(5) 37(45) 20	PMT(V)-8007(5) 45 27(2.4)	PMT(V)-8008(5) 55 3.2(2.6)	PMT-8008 55 37	140
135	PMT-4011 75 12	PMT-4011 75 13	PMT-4012 11 14	PMT-5009 15 17				PMV-8004 30 17	PMT(V)-8006(5) 30 17	PMT(V)-8006(5) 37 18	PMT(V)-8006(5) 37 19	PMT(V)-8007(5) 37(45) 20	PMT(V)-8007(5) 45 27(2.4)	PMT(V)-8007(5) 45(55) 3.2(2.6)	PMT-8008 55 37	135
130	PMT-4011 75 12	PMT-4011 75 13	PMT-4011 75 14	PMT-4012 11 14	PMT-5009 15 18	PMT-6507 18.5 15	PMT-6507 22 16	PMV-8004 30 17	PMT(V)-8006(4) 30 17	PMT(V)-8006(5) 30(37) 18	PMT(V)-8006(5) 37 19	PMT(V)-8006(5) 37 20	PMT(V)-8007(5) 37(45) 27(2.4)	PMT(V)-8007(5) 45(55) 3.2(2.6)	PMT-8008 55 37	130
125	PMT-4011 75 12	PMT-4011 75 13	PMT-4011 75 14	PMT-4012 11 14	PMT-5009 15 18	PMT-5009 18.5 16	PMT-6507 22 17	PMT-6507 22 17	PMT(V)-8006(4) 30 17	PMT(V)-8006(4) 30 18	PMT(V)-8006(4) 37 19	PMT(V)-8006(5) 37 20	PMT(V)-8006(5) 37(45) 27(2.4)	PMT(V)-8007(5) 45(55) 3.2(2.6)	PMT-8008 55 37	125
120	PMT-4010 75 12	PMT-4010 75 13	PMT-4011 75 14	PMT-4011 75 14	PMT-4012 11 14	PMT-5009 15 19	PMT-5009 18.5 20	PMT-6507 22 17	PMT-6507 30 18	PMT(V)-8006(4) 30 18	PMT(V)-8006(4) 30(37) 19	PMT(V)-8006(4) 37 20	PMT(V)-8006(5) 37(45) 27(2.4)	PMT(V)-8007(5) 45 3.2(2.6)	PMT-8007 55 37	120
115	PMT-4010 75 12	PMT-4010 75 13	PMT-4010 75 14	PMT-4011 75 14	PMT-4012 11 14	PMT-5009 15 19	PMT-5009 18.5 20	PMT-6507 22 17	PMT-6507 22 18	PMT-6507 30 20	PMT(V)-8006(4) 30 19	PMT(V)-8006(4) 30(37) 20	PMT(V)-8006(4) 37 27(2.4)	PMT(V)-8007(5) 45 3.2(2.6)	PMT-8007 45 37	115
110	PMT-4009 55 12	PMT-4009 75 13	PMT-4010 75 14	PMT-4011 75 14	PMT-4012 11 14	PMT-5009 15 20	PMT-6507 18.5 17	PMT-6507 22 18	PMT-6507 30 20	PMT(V)-8005(4) 30 19	PMT(V)-8005(4) 30 20	PMT(V)-8005(4) 30 21	PMT(V)-8006(4) 37 27(2.4)	PMT(V)-8006(5) 45 3.2(2.6)	PMT-8007 45 37	110
105	PMT-4009 55 12	PMT-4009 75 13	PMT-4009 75 14	PMT-4010 75 14	PMT-4011 11 14	PMT-4012 11 14	PMT-5009 15 20	PMT-6506 18.5 17	PMT-6507 18.5 18	PMT-6507 30 22	PMT-6507 30 22	PMT(V)-8005(4) 30 20	PMT(V)-8005(4) 37 27(2.4)	PMT(V)-8006(5) 37(45) 3.2(2.6)	PMT-8007 45 37	105
100	PMT-4008 55 12	PMT-4008 55 13	PMT-4009 75 14	PMT-4009 75 14	PMT-4010 11 14	PMT-4011 11 14	PMT-5009 15 20	PMT-5009 18.5 18	PMT-6506 18.5 18	PMT-6507 22 20	PMT-6507 30 22	PMT(V)-8005(4) 30 22	PMT(V)-8005(4) 30 27(2.4)	PMT(V)-8006(4) 37 3.2(2.6)	PMT-8007 45 37	100
95	PMT-4008 55 12	PMT-4008 55 13	PMT-4008 75 14	PMT-4009 75 14	PMT-4010 11 14	PMT-4011 11 14	PMT-5008 15 20	PMT-5009 18.5 22	PMT-6506 18.5 18	PMT-6507 22 20	PMT-6507 30 25	PMT-6507 30 25	PMT(V)-8005(4) 30 27(2.4)	PMT(V)-8005(4) 37 3.2(2.6)	PMT-8006 45 37	95
90	PMT-4008 55 12	PMT-4008 55 13	PMT-4008 55 13	PMT-4008 75 14	PMT-4009 75 14	PMT-4011 11 14	PMT-5008 15 20	PMT-5009 15 22	PMT-6506 18.5 18	PMT-6506 18.5 20	PMT-6507 22 22	PMT-6507 30 25	PMT(V)-8004 30 27(2.4)	PMT(V)-8005(4) 37 3.2(2.6)	PMT-8006 37 37	90
85	PMT-4007 55 12	PMT-4007 55 13	PMT-4008 55 13	PMT-4008 75 14	PMT-4009 75 14	PMT-4010 11 14	PMT-5007 15 20	PMT-5009 15 22	PMT-6506 18.5 18	PMT-6506 18.5 20	PMT-6506 22 22	PMT-6506 30 25	PMT(V)-8004(3) 30 27(2.4)	PMT(V)-8005(4) 30 3.2(2.6)	PMT-8006 37 37	85
80	PMT-4007 55 12	PMT-4007 55 13	PMT-4007 55 14	PMT-4008 55 13	PMT-4008 75 14	PMT-4009 11 14	PMT-5007 11 20	PMT-5008 15 22	PMT-6505 18.5 18	PMT-6506 18.5 20	PMT-6506 18.5 22	PMT-6507 30 25	PMT(V)-8004(3) 30 27(2.4)	PMT(V)-8004(3) 30 3.2(2.6)	PMT-8005 37 37	80
75	PMT-4007 37 12	PMT-4007 55 13	PMT-4007 55 14	PMT-4007 55 14	PMT-4008 75 14	PMT-4008 75 14	PMT-5007 15 20	PMT-5008 15 22	PMT-6505 18.5 18	PMT-6505 18.5 20	PMT-6506 18.5 22	PMT-6506 22 25	PMT(V)-8004(3) 22 27(2.4)	PMT(V)-8004(3) 30 3.2(2.6)	PMT-8005 37 37	75
70	PMT-4006 37 12	PMT-4006 55 13	PMT-4006 55 14	PMT-4007 55 14	PMT-4007 75 14	PMT-4008 75 14	PMT-5006 11 20	PMT-5007 15 22	PMT-6505 15 18	PMT-6505 15 20	PMT-6505 18.5 22	PMT-6506 22 25	PMT(V)-8004(3) 18.5(22) 27(2.4)	PMT(V)-8004(3) 30 3.2(2.6)	PMT-8004 30 37	70
65	PMT-4006 37 12	PMT-4006 37 13	PMT-4006 55 14	PMT-4006 55 14	PMT-4007 55 14	PMT-4007 75 14	PMT-5006 11 20	PMT-5007 11 22	PMT-6504 15 18	PMT-6505 15 20	PMT-6505 18.5 22	PMT-6506 18.5 25	PMT(V)-8004(3) 18.5(22) 27(2.4)	PMT(V)-8004(3) 22(30) 3.2(2.6)	PMT-8004 30 37	65
60	PMT-4005 37 12	PMT-4005 37 13	PMT-4006 37 14	PMT-4006 55 14	PMT-4006 55 14	PMT-4007 75 14	PMT-5005 11 20	PMT-5006 11 22	PMT-6504 15 18	PMT-6504 15 20	PMT-6505 15 22	PMT-6505 18.5 25	PMT(V)-8003(2) 18.5 27(2.4)	PMT(V)-8004(3) 22 3.2(2.6)	PMT-8004 30 37	60
55	PMT-4005 37 12	PMT-4005 37 13	PMT-4005 37 14	PMT-4005 55 14	PMT-4006 55 14	PMT-4007 75 14	PMT-5005 75 20	PMT-5006 11 22	PMT-6504 11 18	PMT-6504 15 20	PMT-6504 15 22	PMT-6505 18.5 25	PMT(V)-8003(2) 18.5 27(2.4)	PMT(V)-8003(2) 22 3.2(2.6)	PMT-8004 22 37	55
50	PMT-4004 37 12	PMT-4005 37 13	PMT-4005 37 14	PMT-4005 37 14	PMT-4005 55 14	PMT-4006 55 14	PMT-5005 75 20	PMT-5005 11 22	PMT-6503 11 18	PMT-6504 11 20	PMT-6504 15 22	PMT-6504 15 25	PMT(V)-8003(2) 15(18.5) 27(2.4)	PMT(V)-8003(2) 18.5 3.2(2.6)	PMT-8003 22 37	50
45	PMT-4004 22 12	PMT-4004 37 13	PMT-4004 37 14	PMT-4004 37 14	PMT-4005 37 14	PMT-4006 55 14	PMT-5004 75 20	PMT-5005 11 22	PMT-6503 11 18	PMT-6503 11 20	PMT-6504 11 22	PMT-6504 15 25	PMT(V)-8003(2) 15 27(2.4)	PMT(V)-8003(2) 18.5 3.2(2.6)	PMT-8003 18.5 37	45
40	PMT-4004 22 12	PMT-4004 22 13	PMT-4004 37 14	PMT-4004 37 14	PMT-4004 37 14	PMT-4005 55 14	PMT-5004 55 20	PMT-5004 75 22	PMT-6503 11 18	PMT-6503 11 20	PMT-6503 11 22	PMT-6504 15 25	PMT(V)-8002 15 27(2.4)	PMT(V)-8002 15(18.5) 3.2	PMT-8003 18.5 37	40
35	PMT-4003 22 12	PMT-4003 22 13	PMT-4003 37 14	PMT-4004 37 14	PMT-4004 37 14	PMT-4004 37 14	PMT-5003 55 20	PMT-5004 75 22	PMT-6503 75 18	PMT-6503 75 20	PMT-6503 11 22	PMT-6503 11 25	PMT-8002 11 27	PMT-8002 15 32	PMT-8002 15 37	35
30	PMT-4003 15 12	PMT-4003 22 13	PMT-4003 22 14	PMT-4003 22 14	PMT-4003 37 14	PMT-4004 37 14	PMT-5003 55 20	PMT-5003 55 22	PMT-6502 75 18	PMT-6502 75 20	PMT-6503 75 22	PMT-6503 11 25	PMT-8002 11 27	PMT-8002 11 32	PMT-8002 15 37	30
25	PMT-4002 15 12	PMT-4003 15 13	PMT-4003 22 14	PMT-4003 22 14	PMT-4003 22 14	PMT-4003 37 14	PMT-5002 37 20	PMT-5003 55 22	PMT-6502 55 18	PMT-6502 55 20	PMT-6502 75 22	PMT-6502 75 25	PMT-6502 75 25			25
20	PMT-4002 15 12	PMT-4002 15 13	PMT-4002 15 14	PMT-4002 22 14	PMT-4002 22 14	PMT-4003 37 14	PMT-5002 37 20	PMT-5002 55 22	PMT-6502 55 18	PMT-6502 55 20	PMT-6502 75 22	PMT-6502 75 25				20
15	PMT-4002 15 12	PMT-4002 15 13	PMT-4002 15 14	PMT-4002 15 14	PMT-4002 22 14	PMT-4002 22 14	PMT-5002 22 20	PMT-5002 37 22								15

* SELECTION TABLE 보는 방법

1. H는 양정(m)이며, Q는 유량(m³/h)

2. IMPELLER 및 CASING의 재질이 회주철이나 청동이 아닌 특수재질의 경우는 별도 문의

3. 본 선정표는 펌프의 개략 선정시에만 사용, 상세 설계시 변경 가능

4. 선정표에서 정해지지 않는 중간사양은 워터게이트의 형식과 동력을 적용

5. 안의 내용은 펌프 MODEL 동력(kW), NPSHr(m)

Multi-Stage Pumps

Ring Section Pumps



Multi-Stage Pump 선정표

1750RPM (60Hz, 4P)

H \ Q	96	108	120	132	144	156	168	180	210	240	270	300	330	360	420	Q \ H
280	PMT-1008 160 2.3															280
260	PMT-1008 132 2.3	PMT-1008 132 2.4	PMT-1008 160 2.5													260
240	PMT-1007 110 2.3	PMT-1007 132 2.4	PMT-1008 132 2.5	PMT-1008 132 2.6	PMT-1008 160 3.0											240
220	PMT-1007 110 2.3	PMT-1007 110 2.4	PMT-1007 132 2.5	PMT-1007 132 2.6	PMT-1008 160 3.0	PMT-1008 160 3.7	PMT-1008 160 4.0									220
200	PMT-1006 110 2.3	PMT-1006 110 2.4	PMT-1006 110 2.5	PMT-1007 110 2.6	PMT-1007 132 3.0	PMT-1007 132 3.7	PMT-1008 160 4.0	PMT-1008 160 4.2		PMV-1503 220 3.8	PMV-1503 250 4.5	PMV-1503 300 4.8				200
180	PMT(V)-1006 90 2.3(2.6)	PMT(V)-1006 90 2.4(3.0)	PMT-1006 110 2.5	PMT-1006 110 2.6	PMT-1006 132 3.0	PMT-1007 132 3.7	PMT-1007 132 4.0	PMT-1007 160 4.2	PMV-1205 200 4.1(4.1)	PMV-1503 200 3.8	PMV-1503 220 4.5	PMV-1503 250 4.8	PMV-1503 300 5.1	PMV-1503 300 5.5		180
160	PMT(V)-1005 75 2.3(2.6)	PMT(V)-1005 90 2.4(3.0)	PMT(V)-1005(6) 90 2.5(3.2)	PMT-1005 90 2.6	PMT-1006 110 3.0	PMT-1006 110 3.7	PMT-1006 132 4.0	PMT-1007 132 4.2	PMT(V)-1204(5) 160 4.0(4.1)	PMT-1204 200 4.4	PMV-1503 200 4.5	PMV-1503 220 4.8	PMV-1503 250 5.1	PMV-1503 300 5.5	PMV-1503 300 6.0	160
150	PMT(V)-1005 75 2.3(2.6)	PMT(V)-1005 90 2.4(3.0)	PMT(V)-1005 90 2.5(3.2)	PMT-1005 90 2.6	PMT-1005 110 3.0	PMT-1006 110 3.7	PMT-1006 132 4.0	PMT-1006 132 4.2	PMT(V)-1204 160 4.0(4.1)	PMT-1204 200 4.4	PMV-1503 200 4.8	PMV-1503 220 4.8	PMV-1503 250 5.1	PMV-1503 300 5.5	PMV-1503 300 6.0	150
145	PMT(V)-1005 75 2.3(2.6)	PMT(V)-1005 75 2.4(3.0)	PMT(V)-1005 75(90) 2.5(3.2)	PMT-1005 90 2.6	PMT-1005 90 3.0	PMT-1005 110 3.7	PMT-1006 110 4.0	PMT-1006 132 4.2	PMT(V)-1204 160 4.0(4.1)	PMT-1204 160 4.4	PMV-1503 200 4.8	PMV-1503 200 4.8	PMV-1503 220 5.1	PMV-1503 220 5.5	PMV-1503 300 6.0	145
140	PMT(V)-1004(5) 75 2.3(2.6)	PMT(V)-1004(5) 75 2.4(2.6)	PMT(V)-1005 75(90) 2.5(3.2)	PMT-1005 75 2.6	PMT-1005 90 3.0	PMT-1005 110 3.7	PMT-1005 110 4.0	PMT-1006 110 4.2	PMT(V)-1204 132 4.0(4.1)	PMT-1204 160 4.4	PMV-1503 200 4.8	PMV-1503 200 4.8	PMV-1503 200 5.1	PMV-1503 220 5.5	PMV-1503 250 6.0	140
135	PMT(V)-1004(5) 75 2.3(2.6)	PMT(V)-1004(5) 75 2.4(2.6)	PMT(V)-1004(5) 75 2.5(3.2)	PMT-1005 75 2.6	PMT-1005 90 3.0	PMT-1005 90 3.7	PMT-1005 110 4.0	PMT-1006 110 4.2	PMT(V)-1204 132 4.0(4.1)	PMT-1204 160 4.4	PMV-1503 200 4.8	PMV-1503 200 4.8	PMV-1503 200 5.1	PMV-1503 220 5.5	PMV-1503 250 6.0	135
130	PMT(V)-1004(5) 75 2.3(2.6)	PMT(V)-1004(5) 75 2.4(2.6)	PMT(V)-1004(5) 75 2.5(3.2)	PMT-1004 75 2.6	PMT-1005 90 3.0	PMT-1005 90 3.7	PMT-1005 110 4.0	PMT-1005 110 4.2	PMT(V)-1203(4) 132 4.0(4.1)	PMT-1204 132 4.4	PMV-1502 200 4.8	PMV-1502 200 4.8	PMV-1502 200 5.1	PMV-1502 220 5.5	PMV-1503 250 6.0	130
125	PMT(V)-1004 75 2.3(2.6)	PMT(V)-1004(5) 75 2.4(2.6)	PMT(V)-1004(5) 75 2.5(3.2)	PMT-1004 75 2.6	PMT-1004 75 3.0	PMT-1005 90 3.7	PMT-1005 90 4.0	PMT-1005 110 4.2	PMT(V)-1203(4) 132 4.0(4.1)	PMT-1203 132 4.4	PMV-1502 200 4.8	PMV-1502 200 4.8	PMV-1502 200 5.1	PMV-1502 200 5.5	PMV-1503 250 6.0	125
120	PMT(V)-1004 55 2.3(2.6)	PMT(V)-1004 75 2.4(3.0)	PMT(V)-1004(5) 75 2.5(3.2)	PMT-1004 75 2.6	PMT-1004 75 3.0	PMT-1004 75 3.7	PMT-1005 90 4.0	PMT-1005 110 4.2	PMT(V)-1203(4) 132 4.0(4.1)	PMT-1203 132 4.4	PMV-1502 160 4.8	PMV-1502 160 4.8	PMV-1502 200 5.1	PMV-1502 200 5.5	PMV-1503 250 6.0	120
115	PMT(V)-1004 55 2.3(2.6)	PMT(V)-1004 55(75) 2.4(3.0)	PMT(V)-1004(5) 75 2.5(3.2)	PMT-1004 75 2.6	PMT-1004 75 3.0	PMT-1004 75 3.7	PMT-1004 90 4.0	PMT-1005 90 4.2	PMT(V)-1203(4) 110 4.0(4.1)	PMT-1203 132 4.4	PMV-1502 160 4.8	PMV-1502 160 4.8	PMV-1502 200 5.1	PMV-1502 200 5.5	PMV-1503 250 6.0	115
110	PMT(V)-1004 55 2.3(2.6)	PMT(V)-1004 55 2.4(3.0)	PMT(V)-1004(5) 75 2.5(3.2)	PMT-1004 75 2.6	PMT-1004 75 3.0	PMT-1004 75 3.7	PMT-1004 90 4.0	PMT-1005 90 4.2	PMT(V)-1203 110 4.0(4.1)	PMT-1203 132 4.4	PMV-1502 160 4.8	PMV-1502 160 4.8	PMV-1502 160 5.1	PMV-1502 200 5.5	PMV-1502 200 6.0	110
105	PMT(V)-1003(4) 55 2.3(2.6)	PMT(V)-1003(4) 55 2.4(3.0)	PMT(V)-1004(5) 55(75) 2.5(3.2)	PMT-1004 75 2.6	PMT-1004 75 3.0	PMT-1004 75 3.7	PMT-1004 90 4.0	PMT-1004 90 4.2	PMT(V)-1203 110 4.0(4.1)	PMT-1203 110 4.4	PMV-1502 160 4.8	PMV-1502 160 4.8	PMV-1502 160 5.1	PMV-1502 160 5.5	PMV-1502 200 6.0	105
100	PMT(V)-1003(4) 55 2.3(2.6)	PMT(V)-1003(4) 55 2.4(3.0)	PMT(V)-1003(4) 55(75) 2.5(3.2)	PMT-1003 55 2.6	PMT-1004 75 3.0	PMT-1004 75 3.7	PMT-1004 75 4.0	PMT-1004 90 4.2	PMT(V)-1203 110 4.0(4.1)	PMT-1203 110 4.4	PMV-1502 132 4.8	PMV-1502 132 4.8	PMV-1502 160 5.1	PMV-1502 160 5.5	PMV-1502 200 6.0	100
95	PMT(V)-1003(4) 45 2.3(2.6)	PMT(V)-1003(4) 55 2.4(3.0)	PMT-1003 55 2.5	PMT-1003 55 2.6	PMT-1003 55 3.0	PMT-1004 75 3.7	PMT-1004 75 4.0	PMT-1004 75 4.2	PMT(V)-1203 90 4.0(4.1)	PMT-1203 110 4.4	PMV-1502 132 4.8	PMV-1502 132 4.8	PMV-1502 160 5.1	PMV-1502 160 5.5	PMV-1502 200 6.0	95
90	PMT(V)-1003 45 2.3(2.6)	PMT(V)-1003(4) 45(55) 2.4(3.0)	PMT-1003 55 2.5	PMT-1003 55 2.6	PMT-1003 55 3.0	PMT-1003 75 3.7	PMT-1004 75 4.0	PMT-1004 75 4.2	PMT(V)-1202(3) 90 4.0(4.1)	PMT-1203 110 4.4	PMV-1502 132 4.8	PMV-1502 132 4.8	PMV-1502 132 5.1	PMV-1502 160 5.5	PMV-1502 160 6.0	90
85	PMT(V)-1003 45 2.3(2.6)	PMT(V)-1003 45 2.4(3.0)	PMT-1003 45 2.5	PMT-1003 55 2.6	PMT-1003 55 3.0	PMT-1003 75 3.7	PMT-1003 75 4.0	PMT-1004 75 4.2	PMT(V)-1202(3) 90 4.0(4.1)	PMT-1202 90 4.4	PMV-1502 110 4.8	PMV-1502 110 4.8	PMV-1502 132 5.1	PMV-1502 132 5.5	PMV-1502 160 6.0	85
80	PMT(V)-1003 37 2.3(2.6)	PMT(V)-1003 45 2.4(3.0)	PMT(V)-1003 45 2.5(3.2)	PMT-1003 55 2.6	PMT-1003 55 3.0	PMT-1003 55 3.7	PMT-1003 75 4.0	PMT-1003 75 4.2	PMT(V)-1202(3) 75(90) 4.0(4.1)	PMT-1202 90 4.4	PMV-1502 110 4.8	PMV-1502 110 4.8	PMV-1502 132 5.1	PMV-1502 132 5.5	PMV-1502 160 6.0	80
75	PMT(V)-1003 37 2.3(2.6)	PMT(V)-1003 37(45) 2.4(3.0)	PMT(V)-1003 45 2.5(3.2)	PMT-1003 45 2.6	PMT-1003 55 3.0	PMT-1003 55 3.7	PMT-1003 55 4.0	PMT-1003 75 4.2	PMT(V)-1202 75 4.0(4.1)	PMT-1202 90 4.4	PMV-1502 110 4.8	PMV-1502 110 4.8	PMV-1502 110 5.1			75
70	PMT(V)-1002(3) 37 2.3(2.6)	PMT(V)-1002(3) 37 2.4(3.0)	PMT(V)-1002(3) 37(45) 2.5(3.2)	PMT-1003 45 2.6	PMT-1003 45 3.0	PMT-1003 55 3.7	PMT-1003 55 4.0	PMT-1003 55 4.2	PMT(V)-1202 75 4.0(4.1)	PMT-1202 90 4.4	PMV-1502 110 4.8	PMV-1502 110 4.8				70
65	PMT(V)-1002(3) 37 2.3(2.6)	PMT(V)-1002(3) 37 2.4(3.0)	PMT(V)-1002(3) 37(45) 2.5(3.2)	PMT-1002 45 2.6	PMT-1002 45 3.0	PMT-1003 45 3.7	PMT-1003 55 4.0	PMT-1003 55 4.2	PMT(V)-1202 75 4.0(4.1)	PMT-1202 90 4.4	PMV-1502 90 4.8	PMV-1502 90 4.8				65
60	PMT(V)-1002 30 2.3(2.6)	PMT(V)-1002 30 2.4(3.0)	PMT(V)-1002(3) 37(45) 2.5(3.2)	PMT-1002 37 2.6	PMT-1002 37 3.0	PMT-1002 45 3.7	PMT-1002 45 4.0	PMT-1003 55 4.2	PMT(V)-1202 75 4.0(4.1)	PMT-1202 90 4.4	PMV-1502 75 4.8	PMV-1502 75 4.8				60
55	PMT(V)-1002 30 2.3(2.6)	PMT(V)-1002 30 2.4(3.0)	PMT(V)-1002(3) 30(37) 2.5(3.2)	PMT-1002 37 2.6	PMT-1002 37 3.0	PMT-1002 37 3.7	PMT-1002 45 4.0	PMT-1002 45 4.2	PMT(V)-1202 55 4.0(4.1)	PMT-1202 75 4.4	PMV-1502 75 4.8	PMV-1502 75 4.8				55
50	PMT(V)-1002 30 2.3(2.6)	PMT(V)-1002 30 2.4(3.0)	PMT(V)-1002 30(37) 2.5(3.2)	PMT-1002 30 2.6	PMT-1002 37 3.0	PMT-1002 37 3.7	PMT-1002 45 4.0	PMT-1002 45 4.2	PMT-1202 55 4.0	PMT-1202 55 4.4						50
45	PMT(V)-1002 22 2.3(2.6)	PMT(V)-1002 30 2.4(3.0)	PMT(V)-1002 30 2.5(3.2)	PMT-1002 30 2.6	PMT-1002 30 3.0				PMT-1202 45 4.0							45
40																40
35																35
30																30
25																25
20																20
15																15

*SELECTION TABLE 보는 방법

1. H는 양정(m)이며, Q는 유량(m³/h)
2. IMPELLER 및 CASING의 재질이 회주철이나 청동이 아닌 특수재질의 경우는 별도 문의
3. 본 선정표는 펌프의 개략 선정시에만 사용, 상세 설계시 변경 가능

4. 선정표에서 정해지지 않는 중간사양은 뒷단계의 형식과 동력을 적용

5. 안의 내용은

펌프 MODEL
동력(kW), NPSHr(m)

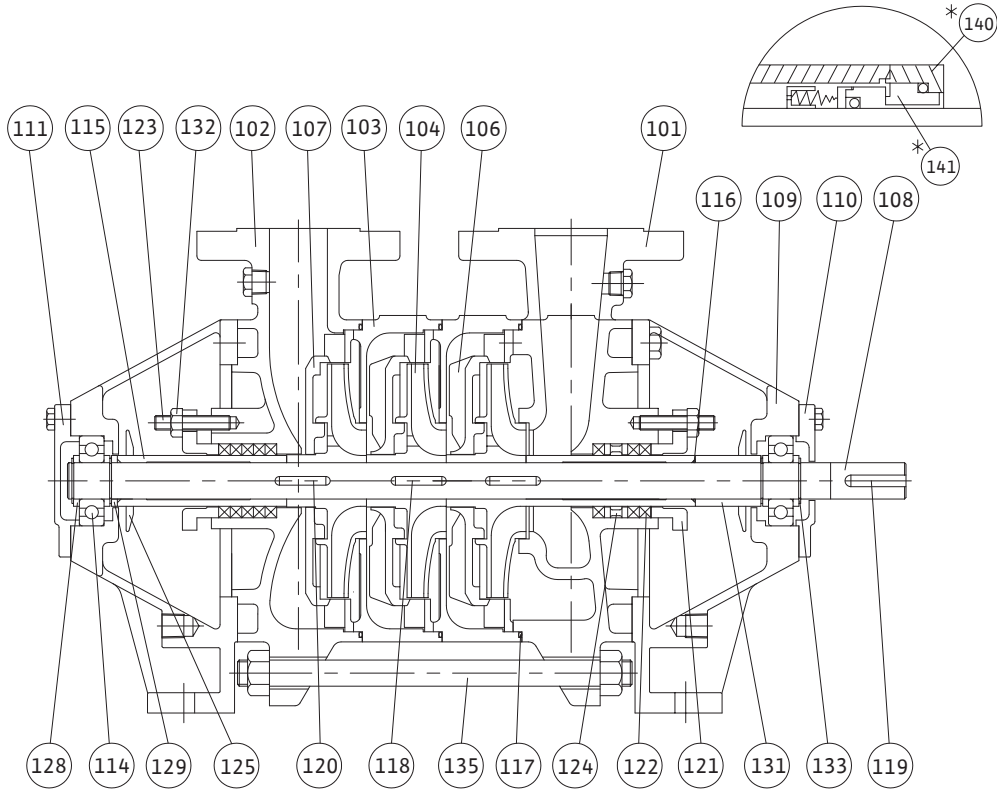
Multi-Stage Pumps

Ring Section Pumps

PMT - 40, 50, 65 Series

단면도

단면도



품번	품명	재질	수량
101	흡입 케이싱 (SUCTION CASING)	GC250	1
102	토출 케이싱(DISCHARGE CASING)	GC250	1
103	중간 케이싱(MIDDLE CASING)	GC250	S-1
104	임펠러 (IMPELLER)	GC200	S
106	안내날개 (A) [GUIDE VANE(A)]	GC200	S-1
107	안내날개 (B) [GUIDE VANE(B)]	GC200	1
108	축 (SHAFT)	SM45C	1
109	베어링 하우징 (BEARING HOUSING)	GC200	2
110	베어링 커버 (A) [BEARING COVER(A)]	GC200	1
111	베어링 커버 (B) [BEARING COVER(B)]	GC200	1
114	볼 베어링 (BALL BEARING)	STB2	2
115	슬리브 (SLEEVE)	STS304	2
116	슬리브오링 (SLEEVE O-RING)	NBR	2
117	케이싱오링 (CASING O-RING)	NBR	S
118	임펠러 키 (IMPELLER KEY)	SM45C	S-2

품번	품명	재질	수량
119	커플링 키 (COUPLING KEY)	SM45C	1
120	슬리브 키 (SLEEVE KEY)	SM45C	2
121	글랜드 (GLAND)	GC200	2
122	글랜드 패킹 (GLAND PACKING)	FABRIC	8
123	글랜드 볼트 (GLAND BOLT)	STS304	4
124	랜턴링 (LANTERN RING)	BC6	1
125	물막음턱 (DEFLECTOR)	NR610	2
128	안내링 (GUIDE RING)	STS304	4
129	간격링 (DISTANCE RING)	STS304	1
131	조정 스페이서 (ADJUSTABLE SPACER)	STS304	1
132	육각 너트 (HEX NUT)	C3602BD	4
133	멈춤링 (STOP RING)	SK5	4
135	조임볼트 (TIE BOLT)	SM20C	4
*140	미캐니컬 실 커버 (M/SEAL COVER)	SM45C	2
*141	미캐니컬 실 (MECHANICAL SEAL)		2

*: 선택부품 (Option Parts)

수량란의 S는 단수

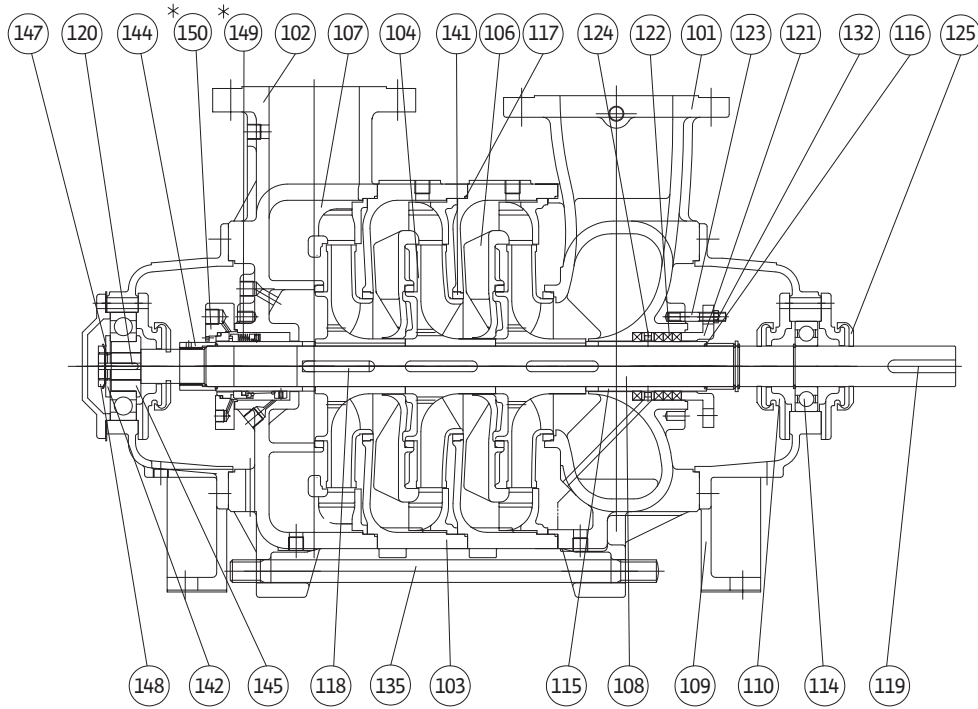
Multi-Stage Pumps

Ring Section Pumps



PMT 80, 10 Series 단면도

단면도



품번	품명	재질	수량
101	흡입 케이싱 (SUCTION CASING)	GC200	1
102	토출 케이싱(DISCHARGE CASING)	GC200	1
103	중간 케이싱(MIDDLE CASING)	GC200	S-1
104	임펠러 (IMPELLER)	GC200	S
106	안내날개(A) [GUIDE VANE(A)]	GC200	S-1
107	안내날개(B) [GUIDE VANE(B)]	GC200	1
108	축 (SHAFT)	SM45C	1
109	베어링 하우징 (BEARING HOUSING)	GC200	2
110	베어링 커버 (BEARING COVER)	GC200	4
114	볼 베어링 (BALL BEARING)	STB2	2
115	슬리브 (SLEEVE)	STS304	2
116	슬리브오링 (SLEEVE O-RING)	NBR	1
117	케이싱오링 (CASING O-RING)	NBR	S
118	임펠러 키 (IMPELLER KEY)	SM45C	S
119	커플링 키 (COUPLING KEY)	SM45C	1
120	아답터 키 (ADAPTER KEY)	SM45C	1

품번	품명	재질	수량
121	글랜드 (GLAND)	GC200	2
122	글랜드 패킹 (GLAND PACKING)	FABRIC	8
123	글랜드 볼트 (GLAND BOLT)	STS304	4
124	랜턴링 (LANTERN RING)	HBsC1	2
125	물막음턱 (DEFLECTOR)	NBR	3
132	육각너트 (HEX NUT)	C3602BD	4
135	조임 볼트 (TIE BOLT)	SM45C	8
141	케이싱 링 (CASING RING)	HBsC1	2+(S-1)x2
142	그리스 칼라 (GREASE COLLAR)	SM20C	1
144	축너트 (SHAFT NUT)	BrC3	1
145	아답터 (ADAPTER)	SM20C	1
147	로크와셔 (LOCK WASHER)	SS400	1
148	로크너트 (LOCK NUT)	SM30C	1
*149	미캐니컬 실 (MECHANICAL SEAL)		2
*150	미캐니컬 실 커버 (M/SEAL COVER)	SM45C	2

*: 선택부품 (Option Parts)

수량란의 S는 단위

*PMT 80/10 Series의 경우 단수에 따라 토출 케이싱의 표준 재질 변경
 (PMT-8008 : GCD450, PMT-8010/12 : SC450, PMT-1007/08 : GCD450)
 단, PMT-8010/12 Series의 경우 흡입 케이싱의 표준재질도 SC450으로 변경

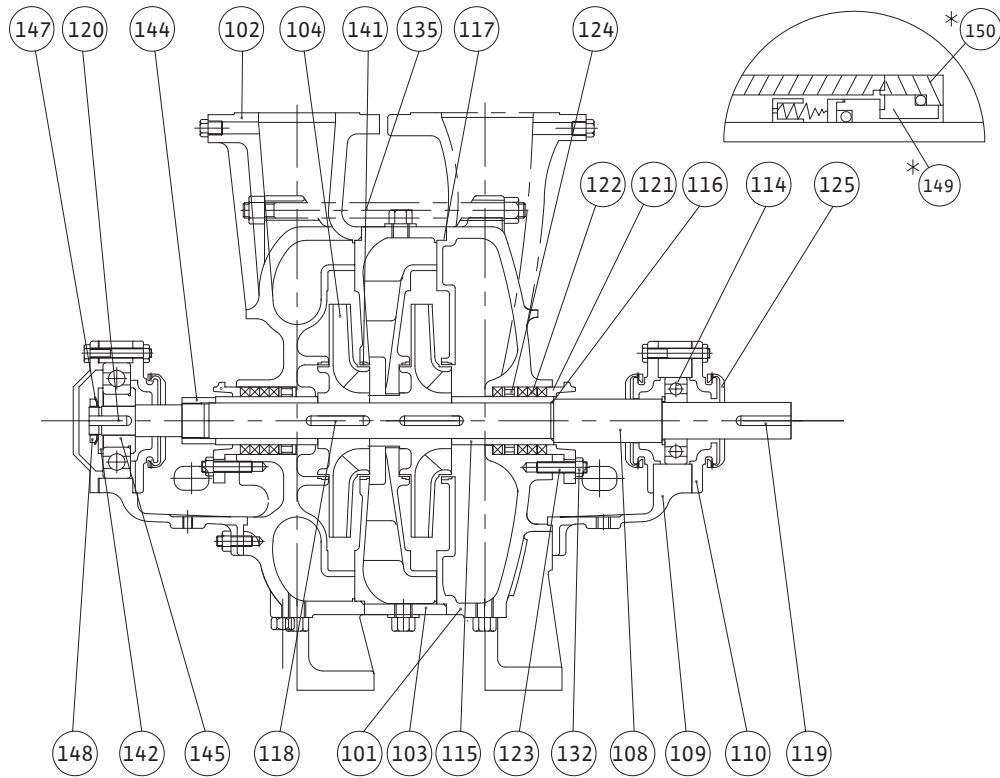
Multi-Stage Pumps

Ring Section Pumps

PMT-12, PMV-80, 10, 12, 15 Series

단면도

단면도



품번	품명	재질	수량
101	흡입 케이싱 (SUCTION CASING)	GC200	1
102	토출 케이싱(DISCHARGE CASING-GUIDE VANE 일체)	GC200	1
103	중간 케이싱(MIDDLE CASING-GUIDE VANE 일체)	GC200	S-1
104	임펠러 (IMPELLER)	GC200	S
108	축 (SHAFT)	SM45C	1
109	베어링 하우징 (BEARING HOUSING)	GC200	2
110	베어링 커버 (BEARING COVER)	GC200	4
114	볼 베어링 (BALL BEARING)	STB2	2
115	슬리브 (SLEEVE)	STS304	2
116	슬리브오링 (SLEEVE O-RING)	NBR	1
117	케이싱오링 (CASING O-RING)	NBR	S
118	임펠러 키 (IMPELLER KEY)	SM45C	S
119	커플링 키 (COUPLING KEY)	SM45C	1
120	아답터 키 (ADAPTER KEY)	SM45C	1
121	글랜드 (GLAND)	GC200	2

품번	품명	재질	수량
122	글랜드 패킹 (GLAND PACKING)	FABRIC	8
123	글랜드 볼트 (GLAND BOLT)	STS304	4
124	랜턴링 (LANTERN RING)	BC6	2
125	물막음턱 (DEFLECTOR)	NBR	3
132	육각너트 (HEX NUT)	C3602BD	4
135	조임 볼트 (TIE BOLT)	SM45C	8
141	케이싱 링 (CASING RING)	BC6	2+(S-1) x2
142	그리스 칼라 (GREASE COLLAR)	SS400	1
144	축너트 (SHAFT NUT)	BC6	1
145	아답터 (ADAPTER)	SM45C	1
146	감압관 (REDUCING PIPE)	C1100T	1
147	로크와셔 (LOCK WASHER)	SS400	1
148	로크너트 (LOCK NUT)	SM30C	1
*149	미캐니컬 실 (MECHANICAL SEAL)		2
*150	미캐니컬 실 커버 (M/SEAL COVER)	SM45C	2

*: 선택부품(Optional Parts)

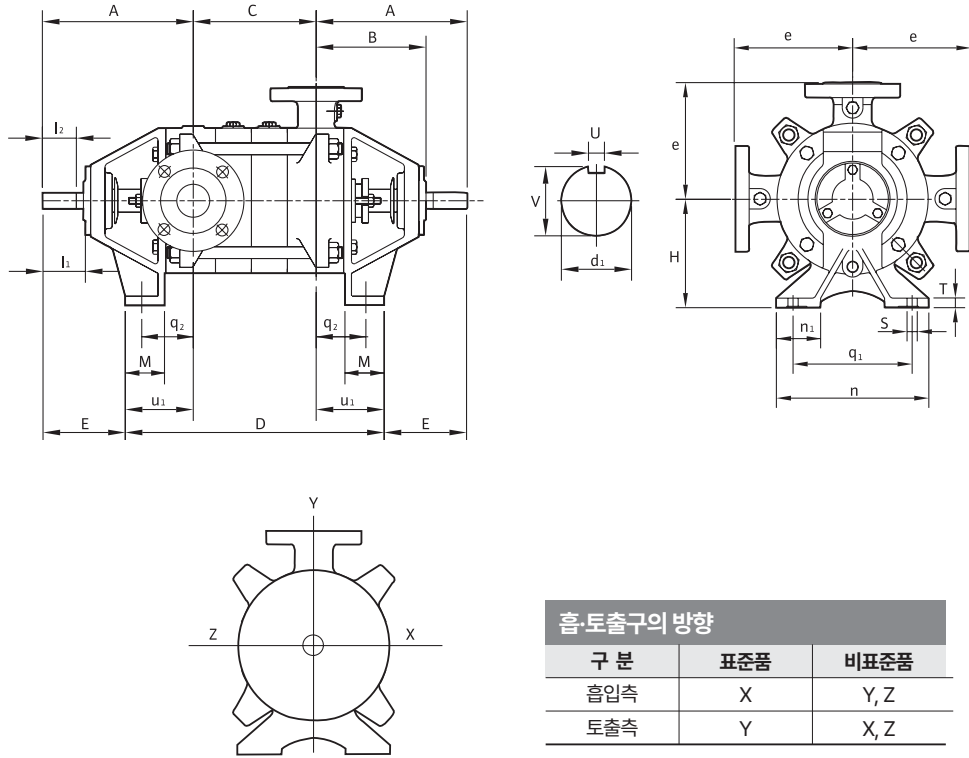
Multi-Stage Pumps

Ring Section Pumps



PMT-40, 50, 65 Series 외형도 및 치수-Bare Shaft Pump

외형도



커플링 측에서 본 단면

흡·토출구의 방향		
구 분	표준품	비표준품
흡입측	X	Y, Z
토출측	Y	X, Z

* 단, 비표준품은 주문시 별도요청 필요

* S = 단수

MODEL	PUMP(mm)																SHAFT(mm)				
	A	B	C	D	E	e	H	M	n	n'	q ¹	q ²	S	T	u ¹	d ¹	l ¹	l ²	V	U	
PMT - 40	231	168	78+55(S-1)	286+55(S-1)	127	174	160	60	224	65	175	79	15	14	104	24	63	52	27	8	
PMT - 50	240	180	89+62(S-1)	313+62(S-1)	128	190	160	60	250	65	200	87	15	16	112	29	60	52	32	8	
PMT - 65	257	195	109+71(S-1)	345+71(S-1)	139	215	180	60	290	75	240	93	15	16	118	34	62	52	37	10	

MODEL	BORE(mm)		단수에 따른 C치수(mm)											
	Suc.	Dis.	1	2	3	4	5	6	7	8	9	10	11	12
PMT - 40	50	40	78	133	188	243	298	353	408	463	518	573	628	683
PMT - 50	65	50	89	151	213	275	337	399	461	523	585			
PMT - 65	80	65	109	180	251	322	393	464	535					

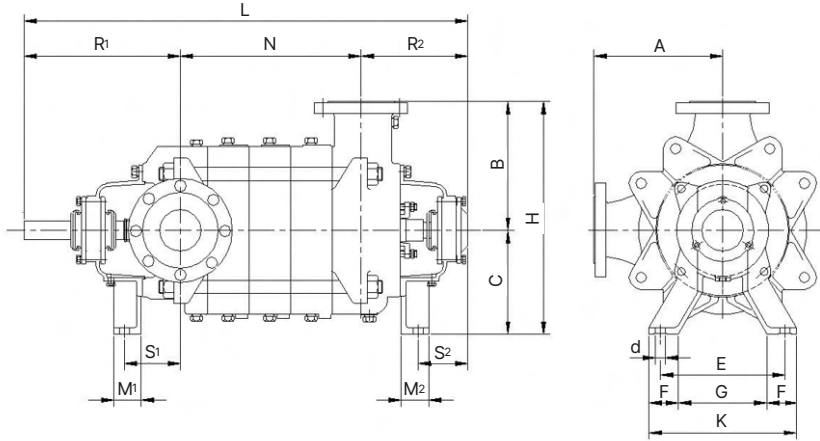
Multi-Stage Pumps

Ring Section Pumps

PMT 80, 10 Series

외형도 및 치수-Bare Shaft Pump

외형도



* 외형도는 PMT-10 Series

치수																				
MODEL	BORE(mm)		PUMP(mm)																	WEIGHT (kg)
	Suc.	Dis.	R ¹	N	R ²	L	B	C	H	M ¹	M ²	S ¹	S ²	A	E	F	G	K	d	
PMT - 8002	100	80	360	210	237	807	275	250	525	66	66	132.5	114	265	300	71	213	355	24	175
PMT - 8003				297		894														210
PMT - 8004				384		981														245
PMT - 8005				471		1068														280
PMT - 8006				558		1155														315
PMT - 8007				645		1242														350
PMT - 8008				732		1329														385
PMT - 8010				906		1503														455
PMT - 8012				1080		1677														525
PMT - 1002				125		100														376
PMT - 1003	335	968	230																	
PMT - 1004	435	1068	280																	
PMT - 1005	535	1168	330																	
PMT - 1006	635	1268	380																	
PMT - 1007	735	1368	430																	
PMT - 1008	835	1468	480																	

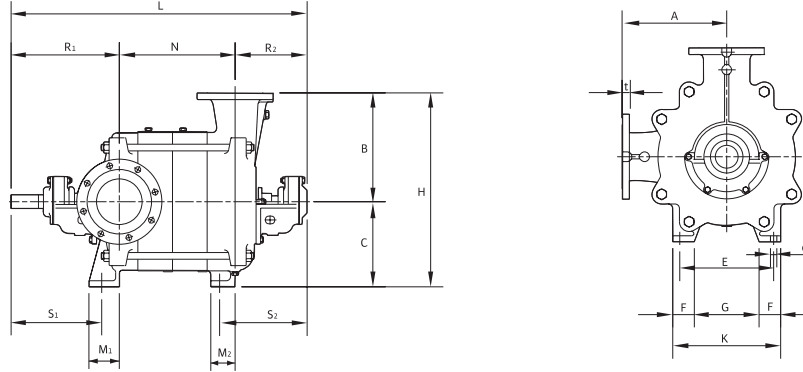
Multi-Stage Pumps

Ring Section Pumps



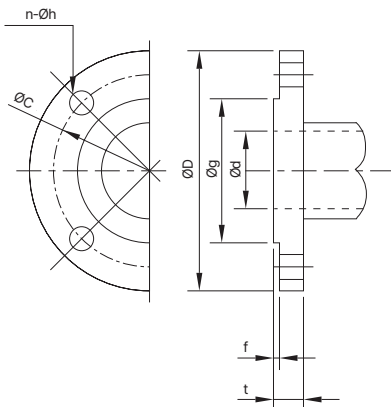
PMT - 12, PMV - 80, 10, 12, 15 Series 외형도 및 치수-Bare Shaft Pump

외형도



MODEL	BORE(mm)		PUMP(mm)																WEIGHT (kg)		
	Suc.	Dic.	R ¹	N	R ²	L	B	C	H	M ¹	M ²	S ¹	S ²	t	A	E	F	G		K	d
PMV - 8002	100	80	319	197	232	743	320	280	600	80	264	287	24	270	300	71	213	355	24	140	
PMV - 8003	100	80	319	284	232	835	320	280	600	80	264	287	24	270	300	71	213	355	24	190	
PMV - 8004	100	80	328	371	232	931	320	280	600	80	273	287	24	270	300	71	213	355	24	240	
PMV - 8005	100	80	328	458	232	1018	320	280	600	80	273	287	24	270	300	71	213	355	24	290	
PMV - 8006	100	80	328	545	232	1105	320	280	600	80	273	287	24	270	300	71	213	355	24	340	
PMV - 1002	125	100	314	220	232	766	355	280	635	80	259	287	24	330	300	71	213	355	24	160	
PMV - 1003	125	100	322	314	232	868	355	280	635	80	267	287	24	330	300	71	213	355	24	220	
PMV - 1004	125	100	341	408	232	981	355	280	635	80	286	287	24	330	300	71	213	355	24	280	
PMV - 1005	125	100	351	502	232	1085	355	280	635	80	297	287	24	330	300	71	213	355	24	340	
PMV - 1006	125	100	351	596	232	1179	355	280	635	80	297	287	24	330	300	71	213	355	24	400	
PMV - 1202	150	125	356	267	241	864	360	280	640	100	80	281	296	26	340	300	71	213	355	24	280
PMV - 1203	150	125	356	381	241	978	360	280	640	100	80	281	296	26	340	300	71	213	355	24	360
PMV - 1204	150	125	356	495	241	1092	360	280	640	100	80	281	296	26	340	300	71	213	355	24	440
PMV - 1205	150	125	386	609	261	1256	360	280	640	100	80	311	316	26	340	300	71	213	355	24	520
PMT - 1202	150	125	391	283	272	946	375	310	685	100	90	306	337	26	375	380	95	270	460	24	290
PMT - 1203	150	125	391	398	272	1061	375	310	685	100	90	306	337	26	375	380	95	270	460	24	375
PMT - 1204	150	125	391	513	272	1176	375	310	685	100	90	306	337	26	375	380	95	270	460	24	460
PMV - 1502	200	150	431	350	297	1078	425	375	800	120	361	367	26	425	400	100	300	500	24	480	
PMV - 1503	200	150	431	495	297	1223	425	375	800	120	361	367	26	425	400	100	300	500	24	620	

KS FLANGE 외형치수



구분	구경 (ød)	øD	t	f	øg	øC	n	øh	볼트	
10kgf/cm ² (흡입FLANGE)	40	140	20	2	81	105	4	19	M16	
	50	155	20	2	96	120	4	19	M16	
	65	175	22	2	116	140	4	19	M16	
	80	185	22	2	126	150	8	19	M16	
	100	210	24	2	151	175	8	19	M16	
	125	250	24	2	182	210	8	23	M20	
	150	280	26	2	212	240	8	23	M20	
16kgf/cm ² (흡입FLANGE)	200	330	26	2	262	290	12	23	M20	
	250	400	30	2	324	355	12	25	M22	
	100	225	26	2	160	185	8	23	M20	
	125	270	26	2	195	225	8	25	M22	
	150	305	28	2	230	260	12	25	M22	
	20kgf/cm ² (토출FLANGE)	40	140	22	2	81	105	4	19	M16
		50	155	22	2	96	120	8	19	M16
65		175	24	2	116	140	8	19	M16	
80		200	26	2	135	160	8	23	M20	
100		225	28	2	160	185	8	23	M20	
125		270	30	2	195	225	8	25	M22	
150		305	32	2	230	260	12	25	M22	
40kgf/cm ² (흡입FLANGE)	200	350	34	2	275	305	12	25	M22	
	250	430	38	2	345	380	12	27	M24	
	80	210	32	2	140	170	8	23	M20	
	100	250	36	2	165	205	8	25	M22	
	125	300	40	2	200	250	8	27	M24	

(단위:mm)

Multi-Stage Pumps

Ring Section Pumps

PMT - 40, 50, 65 Series

외형도 및 치수

외형도

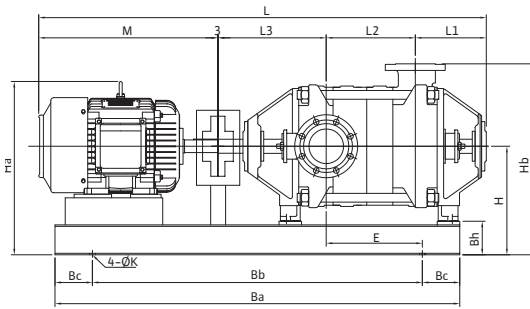


FIG.A

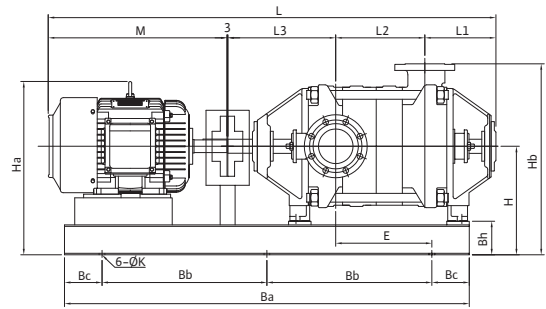
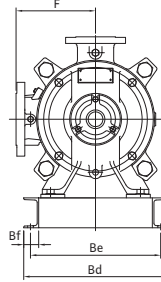


FIG.B

치수

MODEL	FIG	MOTOR (kW)	PUMP & MOTOR(mm)											BED ASM(mm)							WEIGHT (kg)	
			L1	L2	L3	M	F	H	Ha	Hb	E	L	Ba	Bd	Bh	Bb	Bc	Be	Bf	K	P-B	P-B-M
PMT-4002	A	1.5	168	133	231	318	174	245	341	419	97.5	853	800	280	85	500	150	245	40	15	96	121
	A	2.2	168	133	231	357	174	245	387	419	98	892	850	280	85	550	150	245	40	15	98	132
	A	3.7	168	133	231	370	174	245	405	419	97.5	905	800	280	85	500	150	245	40	15	100	145
PMT-4003	A	2.2	168	188	231	357	174	245	387	419	128	947	900	280	85	550	175	245	40	15	108	142
	A	3.7	168	188	231	370	174	245	405	419	147.5	960	850	300	85	550	150	265	40	15	114	159
	A	5.5	168	188	231	447	174	245	424	419	122.5	1037	900	300	85	550	175	265	40	15	107	175
PMT-4004	A	3.7	168	243	231	370	174	245	405	419	180.5	1015	900	300	85	550	175	265	40	15	118	163
	A	5.5	168	243	231	447	174	245	424	419	155.5	1092	1000	300	85	600	200	265	40	15	120	188
	A	7.5	168	243	231	486	174	245	424	419	155.5	1131	1000	300	85	600	200	265	40	15	120	202
PMT-4005	A	3.7	168	298	231	370	174	245	405	419	212	1070	1000	270	85	600	200	235	40	15	136	181
	A	5.5	168	298	231	447	174	245	424	419	185	1147	1050	300	85	600	225	265	40	15	130	198
	A	7.5	168	298	231	486	174	245	424	419	185	1186	1050	300	85	600	225	265	40	15	130	212
PMT-4006	B	3.7	168	353	231	370	174	245	405	419	340	1125	1050	300	85	400	125	265	40	15	139	184
	B	5.5	168	353	231	447	174	245	424	419	315	1202	1100	300	85	400	150	265	40	15	141	209
	B	7.5	168	353	231	486	174	245	424	419	315	1241	1100	300	85	400	150	265	40	15	141	223
PMT-4007	B	5.5	168	408	231	447	174	245	424	419	403	1257	1150	300	85	450	125	265	40	15	152	220
	B	7.5	168	408	231	486	174	245	424	419	403	1296	1150	300	85	450	125	265	40	15	152	234
	B	11	168	408	231	595	174	270	480	444	378	1405	1300	320	110	500	150	275	50	19	159	276
	B	15	168	408	231	639	174	270	480	444	378	1449	1300	320	110	500	150	275	50	19	159	299
PMT-4008	B	5.5	168	463	231	447	174	245	424	419	425	1312	1200	280	85	450	150	245	40	15	162	230
	B	7.5	168	463	231	486	174	245	424	419	425	1351	1200	280	85	450	150	245	40	15	162	244
	B	11	168	463	231	595	174	270	480	444	465	1460	1350	320	110	550	125	275	50	19	170	287
	B	15	168	463	231	639	174	270	480	444	465	1504	1350	320	110	550	125	275	50	19	170	310
PMT-4009	B	5.5	168	518	231	447	174	270	449	444	505	1367	1250	300	110	500	125	255	50	19	190	258
	B	7.5	168	518	231	486	174	270	449	444	505	1406	1250	300	110	500	125	255	50	19	190	272
	B	11	168	518	231	595	174	270	480	444	482	1515	1400	320	110	550	150	275	50	19	182	299
	B	15	168	518	231	639	174	270	480	444	482	1559	1400	320	110	550	150	275	50	19	182	322

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P-B: 모터제외중량 / P-B-M: 모터포함중량

* 'F' 치수가 없는 경우 - Motor Terminal Box가 상부에 위치
- 'Ha' 치수는 Motor Terminal Box 상부까지의 치수

Multi-Stage Pumps

Ring Section Pumps



PMT - 40, 50, 65 Series 치수

치수																						
MODEL	FIG	MOTOR (kW)	PUMP & MOTOR(mm)										BED ASM(mm)							WEIGHT(kg)		
			L1	L2	L3	M	F	H	Ha	Hb	E	L	Ba	Bd	Bh	Bb	Bc	Be	Bf	K	P-B	P-B-M
PMT-4010	B	7.5	168	573	231	486	174	272	451	446	535	1461	1300	300	112	500	150	255	50	19	192	274
	B	11	168	573	231	595	174	270	480	444	510	1570	1450	320	110	550	175	275	50	19	192	309
	B	15	168	573	231	639	174	270	480	444	510	1614	1450	320	110	550	175	275	50	19	192	332
PMT-4011	B	7.5	168	628	231	486	174	270	449	444	615	1516	1350	300	110	550	125	255	50	19	202	284
	B	11	168	628	231	595	174	270	480	444	540	1625	1500	320	110	550	200	275	50	19	204	321
PMT-4012	B	15	168	628	231	639	174	270	480	444	540	1669	1500	320	110	550	200	275	50	19	204	344
	B	7.5	168	683	231	486	174	270	449	444	645	1571	1400	300	110	550	150	255	50	19	209	291
	B	11	168	683	231	595	174	270	480	444	620	1680	1550	320	110	600	175	275	50	19	216	333
PMT-5002	B	15	168	683	231	639	174	270	480	444	620	1724	1550	320	110	600	175	275	50	19	216	356
	A	3.7	180	151	240	370	190	245	405	435	138.5	944	850	300	85	550	150	265	40	15	127	172
	A	5.5	180	151	240	447	190	245	424	435	113.5	1021	900	300	85	550	175	265	40	15	128	196
PMT-5003	A	7.5	180	151	240	486	190	245	424	435	113.5	1060	900	300	85	550	175	265	40	15	128	210
	A	3.7	180	213	240	370	190	245	405	435	171.5	1006	900	300	85	550	175	265	40	15	143	188
	A	5.5	180	213	240	447	190	245	424	435	146.5	1083	1000	300	85	600	200	265	40	15	145	213
PMT-5004	A	7.5	180	213	240	486	190	245	424	435	146.5	1122	1000	300	85	600	200	265	40	15	145	227
	A	5.5	180	275	240	447	190	245	424	435	176	1145	1050	300	85	600	225	265	40	15	160	228
	A	7.5	180	275	240	486	190	245	424	435	176	1184	1050	300	85	600	225	265	40	15	160	242
PMT-5005	B	11	180	275	240	595	190	245	455	435	246	1293	1100	320	85	400	150	285	40	15	176	293
	B	5.5	180	337	240	447	190	245	424	435	306	1207	1100	300	85	400	150	265	40	15	176	244
	B	7.5	180	337	240	486	190	245	424	435	306	1246	1100	300	85	400	150	265	40	15	176	258
	B	11	180	337	240	595	190	245	455	435	304	1355	1200	320	85	450	150	285	40	15	175	292
PMT-5006	B	15	180	337	240	639	190	245	455	435	304	1399	1200	320	85	450	150	285	40	15	175	315
	B	5.5	180	399	240	447	190	245	424	435	394	1269	1150	300	85	450	125	265	40	15	194	262
	B	7.5	180	399	240	486	190	245	424	435	394	1308	1150	300	85	450	125	265	40	15	194	276
PMT-5007	B	11	180	399	240	595	190	270	480	460	369	1417	1300	320	110	500	150	275	50	19	199	316
	B	15	180	399	240	639	190	270	480	460	369	1461	1300	320	110	500	150	275	50	19	199	339
	B	11	180	461	240	595	190	270	480	460	456	1479	1350	320	110	550	125	275	50	19	215	332
PMT-5008	B	15	180	461	240	639	190	270	480	460	456	1523	1350	320	110	550	125	275	50	19	215	355
	B	18.5,22	180	461	240	645	190	290	536	480	436	1529	1400	410	130	550	150	365	50	19	224	409/414
PMT-5009	B	11	180	523	240	595	190	270	480	460	493	1541	1400	320	110	550	150	275	50	19	232	349
	B	15	180	523	240	639	190	270	480	460	493	1585	1400	320	110	550	150	275	50	19	232	372
	B	18.5,22	180	523	240	645	190	290	536	480	473	1591	1450	410	130	550	175	365	50	19	240	425/430
PMT-6502	B	11	180	585	240	595	190	270	480	460	531	1603	1450	320	110	550	175	275	50	19	247	364
	B	15	180	585	240	639	190	270	480	460	531	1647	1450	320	110	550	175	275	50	19	247	387
	B	18.5,22	180	585	240	645	190	290	536	480	510	1653	1500	410	130	550	200	365	50	19	256	441/446
PMT-6503	A	5.5	195	180	257	447	215	265	444	480	131	1082	950	340	85	600	175	305	40	15	157	225
	A	7.5	195	180	257	486	215	265	444	480	131	1121	950	340	85	600	175	305	40	15	157	239
	B	11	195	180	257	595	215	265	475	480	156	1230	1100	340	85	400	150	305	40	15	157	274
	B	15	195	180	257	639	215	265	475	480	156	1274	1100	340	85	400	150	305	40	15	157	297
PMT-6504	B	7.5	195	251	257	486	215	265	444	480	252	1192	1050	340	85	400	125	305	40	15	184	266
	B	11	195	251	257	595	215	265	475	480	252	1301	1150	340	85	450	125	305	40	15	186	303
	B	15	195	251	257	639	215	265	475	480	252	1345	1150	340	85	450	125	305	40	15	186	326
	B	18.5,22	195	251	257	645	215	292	538	507	227	1351	1200	400	112	450	150	355	50	19	194	379/384
PMT-6505	B	11	195	322	257	595	215	290	500	505	323	1372	1250	370	110	500	125	325	50	19	220	337
	B	15	195	322	257	639	215	290	500	505	323	1416	1250	370	110	500	125	325	50	19	220	360
	B	18.5,22	195	322	257	645	215	290	536	505	323	1422	1250	400	110	500	125	355	50	19	222	407/412
PMT-6506	B	11	195	393	257	595	215	290	500	505	369	1443	1300	370	110	500	150	325	50	19	247	364
	B	15	195	393	257	639	215	290	500	505	369	1487	1300	370	110	500	150	325	50	19	247	387
	B	18.5,22	195	393	257	645	215	290	536	505	397	1493	1350	400	110	550	125	355	50	19	276	461/466
	B	30	195	393	257	673	215	290	536	505	397	1521	1350	400	110	550	125	355	50	19	276	511
PMT-6507	B	18.5,22	195	464	257	645	215	290	536	505	440	1564	1400	400	110	550	150	355	50	19	272	457/462
	B	30	195	464	257	673	215	290	536	505	440	1592	1400	400	110	550	150	355	50	19	272	507
PMT-6508	B	18.5,22	195	535	257	645	215	290	536	505	461	1635	1500	400	110	550	200	355	50	19	299	484/489
	B	30	195	535	257	673	215	290	536	505	461	1663	1500	400	110	550	200	355	50	19	299	534
	B	37	195	535	257	820	215	335	604	550	461	1810	1700	410	155	650	200	350	50	23	327	607
PMT-6509	B	45	195	535	257	820	215	335	604	550	461	1810	1700	410	155	650	200	350	50	23	327	632

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 - 'Ha' 치수는 Motor Terminal Box 상부까지의 치수

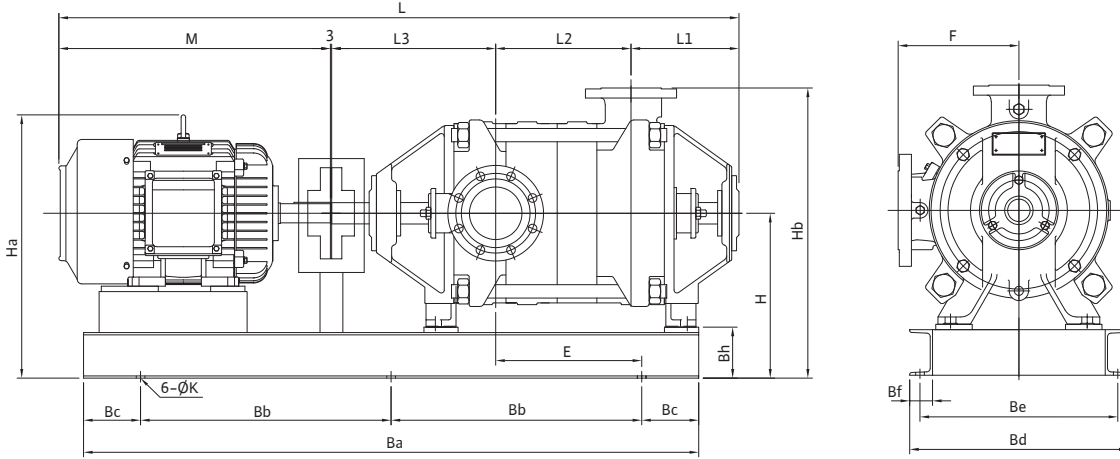
Multi-Stage Pumps

Ring Section Pumps

PMT- 80 Series

외형도 및 치수

외형도



치수

MODEL	MOTOR (kW)	PUMP & MOTOR(mm)										BED ASM(mm)						WEIGHT(kg)			
		L1	L2	L3	M	F	H	Ha	Hb	E	L	Ba	Bd	Bh	Bb	Bc	Be	Bf	K	P-B	P-B-M
PMT-8002	5.5	237	210	360	447	265	362	541	637	233	1257	1150	370	112	450	125	325	50	19	275	343
	7.5	237	210	360	486	265	362	541	637	233	1296	1150	370	112	450	125	325	50	19	275	357
	11	237	210	360	595	265	362	572	637	233	1405	1250	370	112	500	125	325	50	19	275	392
	15	237	210	360	639	265	362	572	637	233	1449	1250	370	112	500	125	325	50	19	275	415
	18.5,22	237	210	360	645	265	362	608	637	208	1455	1300	370	112	500	150	325	50	19	275	460/465
30	237	210	360	673	265	362	608	637	208	1483	1300	370	112	500	150	325	50	19	275	510	
PMT-8003	11	237	297	360	595	265	362	572	637	320	1492	1350	370	112	550	125	325	50	19	310	427
	15	237	297	360	639	265	362	572	637	320	1536	1350	370	112	550	125	325	50	19	310	450
	18.5,22	237	297	360	645	265	362	608	637	295	1542	1400	370	112	550	150	325	50	19	310	495/500
	30	237	297	360	673	265	362	608	637	295	1570	1400	370	112	550	150	325	50	19	310	545
	37	237	297	360	820	265	362	631	637	245	1717	1500	430	112	550	200	385	50	19	310	590
45	237	297	360	820	265	362	631	637	245	1717	1500	430	112	550	200	385	50	19	310	615	
PMT-8004	11	237	384	360	595	265	362	572	637	357	1579	1450	370	112	550	175	325	50	19	345	462
	15	237	384	360	639	265	362	572	637	357	1623	1450	370	112	550	175	325	50	19	345	485
	18.5,22	237	384	360	645	265	362	608	637	357	1629	1450	370	112	550	175	325	50	19	345	530/535
	30	237	384	360	673	265	362	608	637	357	1657	1450	370	112	550	175	325	50	19	345	580
	37	237	384	360	820	265	362	631	637	332	1804	1600	430	112	600	200	385	50	19	345	625
45	237	384	360	820	265	362	631	637	332	1804	1600	430	112	600	200	385	50	19	345	650	
PMT-8005	11	237	471	360	595	265	362	572	637	419	1666	1500	370	112	550	200	325	50	19	380	497
	15	237	471	360	639	265	362	572	637	419	1710	1500	370	112	550	200	325	50	19	380	520
	18.5,22	237	471	360	645	265	362	608	637	444	1716	1550	370	112	600	175	325	50	19	380	565/570
	30	237	471	360	673	265	362	608	637	444	1744	1550	370	112	600	175	325	50	19	380	615
	37	237	471	360	820	265	362	631	637	444	1891	1650	430	112	650	175	385	50	19	380	660
45	237	471	360	820	265	362	631	637	444	1891	1650	430	112	650	175	385	50	19	380	685	
PMT-8006	18.5,22	237	558	360	645	265	362	608	637	531	1803	1650	370	112	650	175	325	50	19	415	600/605
	30	237	558	360	673	265	362	608	637	531	1831	1650	370	112	650	175	325	50	19	415	650
	37	237	558	360	820	265	362	631	637	481	1978	1750	430	112	650	225	385	50	19	415	695
	45	237	558	360	820	265	362	631	637	481	1978	1750	430	112	650	225	385	50	19	415	720
	55	237	558	360	825	265	362	647	637	481	1983	1750	470	112	650	225	425	50	19	415	800
PMT-8007	18.5,22	237	645	360	645	265	362	608	637	568	1890	1750	370	112	650	225	325	50	19	450	635/640
	30	237	645	360	673	265	362	608	637	568	1918	1750	370	112	650	225	325	50	19	450	685
	37	237	645	360	820	265	362	631	637	568	2065	1850	430	112	700	225	385	50	19	450	730
	45	237	645	360	820	265	362	631	637	568	2065	1850	430	112	700	225	385	50	19	450	755
	55	237	645	360	825	265	362	647	637	593	2070	1800	470	112	700	200	425	50	19	450	835
PMT-8008	18.5,22	237	732	360	645	265	362	608	637	680	1977	1800	370	112	700	200	325	50	19	485	670/675
	30	237	732	360	673	265	362	608	637	680	2005	1800	370	112	700	200	325	50	19	485	720
	37	237	732	360	820	265	362	631	637	655	2152	1950	430	112	750	225	385	50	19	485	765
	45	237	732	360	820	265	362	631	637	655	2152	1950	430	112	750	225	385	50	19	485	790
	55	237	732	360	825	265	362	647	637	630	2157	1900	470	112	700	250	425	50	19	485	870
PMT-8010	18.5,22	237	906	360	645	265	362	608	637	804	2151	2000	370	112	750	250	325	50	19	555	740/745
	30	237	906	360	673	265	362	608	637	804	2179	2000	370	112	750	250	325	50	19	555	790
	37	237	906	360	820	265	362	631	637	804	2326	2100	430	112	800	250	385	50	19	555	835
	45	237	906	360	820	265	362	631	637	804	2326	2100	430	112	800	250	385	50	19	555	860
	55	237	906	360	825	265	362	647	637	804	2331	2100	470	112	800	250	425	50	19	555	940
PMT-8012	37	237	1080	360	820	265	362	631	637	978	2500	2300	430	112	900	250	385	50	19	625	905
	45	237	1080	360	820	265	362	631	637	978	2500	2300	430	112	900	250	385	50	19	625	930
	55	237	1080	360	825	265	362	647	637	1003	2505	2250	470	112	900	225	425	50	19	625	1010
	75	237	1080	360	910	265	387	647	662	978	2590	2300	500	137	900	250	440	65	23	625	1105
	90	237	1080	360	910	265	387	647	662	978	2590	2300	500	137	900	250	440	65	23	625	1140

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P-B: 모터제외중량 / P-B-M: 모터포함중량

* 'F' 치수가 없는 경우 - Motor Terminal Box가 상부에 위치
- 'Ha' 치수는 Motor Terminal Box 상부까지의 치수

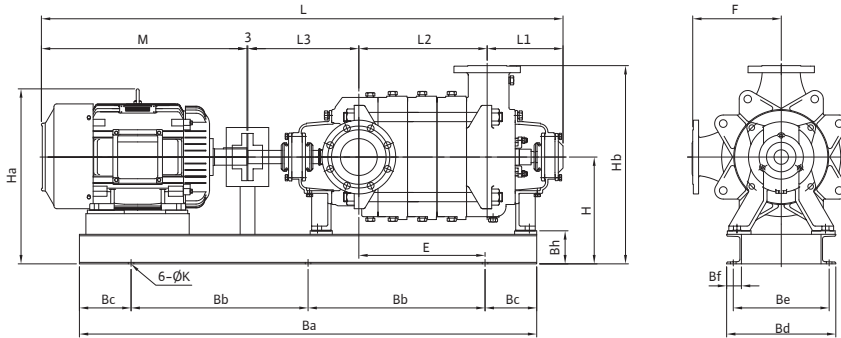
Multi-Stage Pumps

Ring Section Pumps



PMT-10 Series 외형도 및 치수

외형도



치수																					
MODEL	MOTOR (kW)	PUMP & MOTOR(mm)										BED ASM(mm)						WEIGHT(kg)			
		L1	L2	L3	M	F	H	Ha	Hb	E	L	Ba	Bd	Bh	Bb	Bc	Be	Bf	K	P-B	P-B-M
PMT-1002	11	257	235	376	595	300	362	572	672	253	1466	1300	370	112	500	150	325	50	19	232	349
	15	257	235	376	639	300	362	572	672	253	1510	1300	370	112	500	150	325	50	19	232	372
	18.5,22	257	235	376	645	300	362	608	672	278	1516	1350	370	112	550	125	325	50	19	236	421/426
	30	257	235	376	673	300	362	608	672	278	1544	1350	370	112	550	125	325	50	19	236	471
	37	257	235	376	820	300	362	631	672	228	1691	1450	430	112	550	175	385	50	19	268	548
PMT-1003	45	257	235	376	820	300	362	631	672	228	1691	1450	430	112	550	175	385	50	19	268	573
	18.5,22	257	335	376	645	300	362	608	672	328	1616	1450	370	112	550	175	325	50	19	285	470/475
	30	257	335	376	673	300	362	608	672	328	1644	1450	370	112	550	175	325	50	19	285	520
	37	257	335	376	820	300	362	631	672	328	1791	1550	430	112	600	175	385	50	19	324	604
	45	257	335	376	820	300	362	631	672	328	1791	1550	430	112	600	175	385	50	19	324	629
PMT-1004	55	257	335	376	825	300	362	647	672	328	1796	1550	470	112	600	175	425	50	19	332	717
	75	257	335	376	910	300	387	647	697	303	1881	1600	500	137	600	200	440	65	23	350	830
	18.5,22	257	435	376	645	300	362	608	672	428	1716	1550	370	112	600	175	325	50	19	337	522/527
	30	257	435	376	673	300	362	608	672	428	1744	1550	370	112	600	175	325	50	19	337	572
	37	257	435	376	820	300	362	631	672	428	1891	1650	430	112	650	175	385	50	19	380	660
PMT-1005	45	257	435	376	820	300	362	631	672	428	1891	1650	430	112	650	175	385	50	19	380	685
	55	257	435	376	825	300	362	647	672	428	1896	1650	470	112	650	175	425	50	19	389	774
	75	257	435	376	910	300	387	647	697	403	1981	1800	500	137	700	200	440	65	23	415	895
	90	257	435	376	910	300	387	647	697	403	1981	1800	500	137	700	200	440	65	23	415	930
	110	257	435	376	1100	300	460	768	770	378	2171	1850	570	210	700	225	500	75	23	449	1179
PMT-1006	132	257	435	376	1100	300	460	768	770	378	2171	1850	570	210	700	225	500	75	23	449	1249
	30	257	535	376	673	300	362	608	672	528	1844	1650	370	112	650	175	325	50	19	389	624
	37	257	535	376	820	300	362	631	672	478	1991	1750	430	112	650	225	385	50	19	436	716
	45	257	535	376	820	300	362	631	672	478	1991	1750	430	112	650	225	385	50	19	436	741
	55	257	535	376	825	300	362	647	672	478	1996	1750	470	112	650	225	425	50	19	446	831
PMT-1007	75	257	535	376	910	300	387	647	697	453	2081	1900	500	137	700	250	440	65	23	473	953
	90	257	535	376	910	300	387	647	697	453	2081	1900	500	137	700	250	440	65	23	473	988
	110	257	535	376	1100	300	460	768	770	478	2271	1950	570	210	750	225	500	75	23	508	1238
	132	257	535	376	1100	300	460	768	770	478	2271	1950	570	210	750	225	500	75	23	508	1308
	37	257	635	376	820	300	362	631	672	578	2091	1850	430	112	700	225	385	50	19	492	772
PMT-1008	45	257	635	376	820	300	362	631	672	578	2091	1850	430	112	700	225	385	50	19	492	797
	55	257	635	376	825	300	387	647	697	578	2096	1850	500	137	700	225	440	65	23	519	904
	75	257	635	376	910	300	387	647	697	553	2181	2000	500	137	750	250	440	65	23	530	1010
	90	257	635	376	910	300	387	647	697	553	2181	2000	500	137	750	250	440	65	23	530	1045
	110	257	635	376	1100	300	460	768	770	578	2371	2050	570	210	800	225	500	75	23	567	1297
PMT-1009	132	257	635	376	1100	300	460	768	770	578	2371	2050	570	210	800	225	500	75	23	567	1367
	160	257	635	376	1296	300	545	1128	855	578	2567	2150	700	295	850	225	620	80	27	636	1816
	200	257	635	376	1296	300	545	1128	855	578	2567	2150	700	295	850	225	620	80	27	636	1916
	37	257	735	376	820	300	362	631	672	678	2191	1950	430	112	750	225	385	50	19	548	828
	45	257	735	376	820	300	362	631	672	678	2191	1950	430	112	750	225	385	50	19	548	853
PMT-1010	55	257	735	376	825	300	387	647	697	678	2196	1950	500	137	750	225	440	65	23	577	962
	75	257	735	376	910	300	387	647	697	653	2281	2100	500	137	800	250	440	65	23	588	1068
	90	257	735	376	910	300	387	647	697	653	2281	2100	500	137	800	250	440	65	23	588	1103
	110	257	735	376	1100	300	460	768	770	678	2471	2150	570	210	850	225	500	75	23	627	1357
	132	257	735	376	1100	300	460	768	770	678	2471	2150	570	210	850	225	500	75	23	627	1427
PMT-1011	160	257	735	376	1296	300	545	1128	855	678	2667	2250	700	295	900	225	620	80	27	698	1878
	200	257	735	376	1296	300	545	1128	855	678	2667	2250	700	295	900	225	620	80	27	698	1978
	55	257	835	376	825	300	387	647	697	778	2296	2050	500	137	800	225	440	65	23	634	1019
	75	257	835	376	910	300	387	647	697	753	2381	2200	500	137	850	250	440	65	23	645	1125
	90	257	835	376	910	300	387	647	697	753	2381	2200	500	137	850	250	440	65	23	645	1160
PMT-1012	110	257	835	376	1100	300	460	768	770	778	2571	2250	570	210	900	225	500	75	23	686	1416
	132	257	835	376	1100	300	460	768	770	778	2571	2250	570	210	900	225	500	75	23	686	1486
	160	257	835	376	1296	300	545	1128	855	778	2767	2350	700	295	950	225	620	80	27	760	1940
	200	257	835	376	1296	300	545	1128	855	778	2767	2350	700	295	950	225	620	80	27	760	2040

* Motor 관련 치수는 Motor제조회사에 따라 달라질 수 있음(하이젠 모터 기준 치수)

P-B: 모터제외중량 / P-B-M: 모터포함중량

* 'F' 치수가 없는 경우 - Motor Terminal Box가 상부에 위치
 - 'Ha' 치수는 Motor Terminal Box 상부까지의 치수

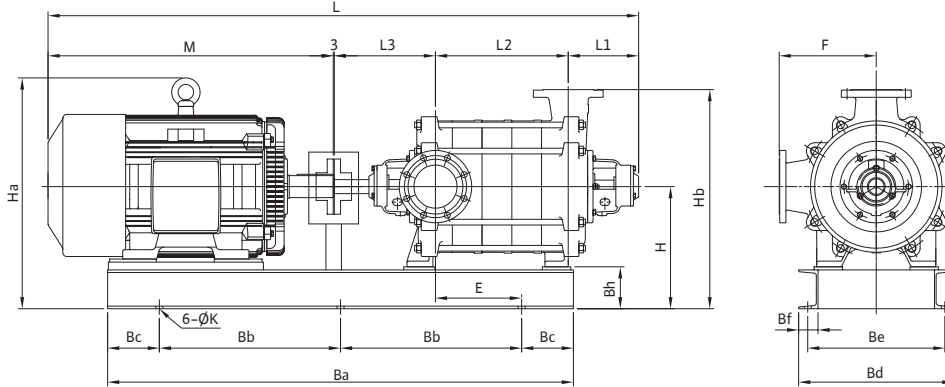
Multi-Stage Pumps

Ring Section Pumps

PMT - 12, PMV - 80, 10, 12, 15 Series

외형도 및 치수

외형도



치수

MODEL	MOTOR (kW)	PUMP & MOTOR(mm)										BED ASM(mm)						WEIGHT(kg)			
		L1	L2	L3	M	F	H	Ha	Hb	E	L	Ba	Bd	Bh	Bb	Bc	Be	Bf	K	P-B	P-B-M
PMV - 8002	11	232	197	319	595	270	392	602	712	80	1346	1050	425	112	400	125	380	50	19	191	308
	15	232	197	319	639	270	392	602	712	80	1390	1050	425	112	400	125	380	50	19	191	331
	18.5,22	232	197	319	645	270	392	638	712	55	1396	1100	425	112	400	150	380	50	19	196	381/386
PMV - 8003	18.5,22	232	284	319	645	270	392	638	712	142	1483	1200	425	112	450	150	380	50	19	248	433/438
	30	232	284	319	673	270	392	638	712	142	1511	1200	425	112	450	150	380	50	19	248	483
	37	232	284	319	820	270	392	661	712	166.5	1658	1250	440	112	500	125	395	50	19	267	547
PMV - 8004	45	232	284	319	820	270	392	661	712	166.5	1658	1250	440	112	500	125	395	50	19	267	572
	18.5,22	232	371	328	645	270	392	638	712	229.5	1579	1300	440	112	500	150	395	50	19	299	484/489
	30	232	371	328	673	270	392	638	712	229.5	1607	1300	440	112	500	150	395	50	19	324	559
	37	232	371	328	820	270	392	661	712	229.5	1754	1400	440	112	550	150	395	50	19	324	604
PMV - 8005	45	232	371	328	820	270	392	661	712	229.5	1754	1400	440	112	550	150	395	50	19	324	629
	30	232	458	328	673	270	392	638	712	318	1694	1400	440	112	550	150	395	50	19	351	586
	37	232	458	328	820	270	392	661	712	293	1841	1450	440	112	550	175	395	50	19	380	660
PMV - 8006	45	232	458	328	820	270	392	661	712	293	1841	1450	440	112	550	175	395	50	19	380	685
	55	232	458	328	825	270	392	677	712	293	1846	1450	480	112	550	175	435	50	19	388	773
	75	232	545	328	820	270	390	659	710	385	1928	1550	440	110	600	175	395	50	19	436	716
PMV - 1002	45	232	545	328	820	270	390	659	710	385	1928	1550	440	110	600	175	395	50	19	436	741
	55	232	545	328	825	270	417	702	737	380	1933	1550	480	137	600	175	420	65	23	452	837
	75	232	545	328	910	270	417	677	737	355	2018	1700	540	137	650	200	480	65	23	478	958
PMV - 1003	18.5,22	232	220	314	645	330	392	638	747	77.5	1414	1100	440	112	400	150	395	50	19	218	403/408
	30	232	220	314	673	330	392	638	747	77.5	1442	1100	440	112	400	150	395	50	19	218	453
	37	232	220	314	820	330	392	661	765	77.5	1589	1200	440	112	450	150	395	50	19	216	496
PMV - 1004	45	232	220	314	820	330	392	661	765	77.5	1589	1200	440	112	450	150	395	50	19	216	521
	18.5,22	232	314	322	645	330	392	638	747	171.5	1516	1200	440	112	450	150	395	50	19	276	461/466
	30	232	314	322	673	330	392	638	747	171.5	1544	1200	440	112	450	150	395	50	19	276	511
PMV - 1005	37	232	314	322	820	330	392	661	765	171.5	1691	1300	440	112	500	150	395	50	19	270	550
	45	232	314	322	820	330	392	661	765	171.5	1691	1300	440	112	500	150	395	50	19	270	575
	37	232	408	341	820	330	392	661	765	265.5	1804	1450	440	112	575	150	395	50	19	367	647
PMV - 1006	45	232	408	341	820	330	392	661	765	265.5	1804	1450	440	112	575	150	395	50	19	367	672
	55	232	408	341	825	330	392	677	765	265.5	1809	1400	480	112	550	150	435	50	19	375	760
	75	232	408	341	910	330	417	677	772	228	1894	1600	540	137	600	200	480	65	23	427	907
PMV - 1202	55	232	502	351	825	330	417	702	772	309.5	1913	1500	480	137	550	200	420	65	23	448	833
	75	232	502	351	910	330	417	677	772	322	1998	1700	540	137	650	200	480	65	23	478	958
	75	232	596	351	910	330	417	677	772	381	2092	1750	540	137	650	225	480	65	23	542	1022
PMV - 1203	90	232	596	351	910	330	417	677	772	381	2092	1750	540	137	650	225	480	65	23	542	1057
	55	241	267	356	825	340	390	675	750	128	1692	1300	480	110	500	150	435	50	19	368	753
	75	241	267	356	910	340	390	650	750	103	1777	1450	540	110	550	175	495	50	19	390	870
PMV - 1204	90	241	267	356	910	340	390	650	750	103	1777	1450	540	110	550	175	495	50	19	390	905
	75	241	381	356	910	340	390	650	750	217	1891	1550	540	110	600	175	495	50	19	478	958
	90	241	381	356	910	340	390	650	750	217	1891	1550	540	110	600	175	495	50	19	478	993
PMV - 1205	110	241	381	356	1100	340	417	725	777	217	2081	1650	615	137	650	175	555	65	23	513	1243
	90	241	495	356	910	340	417	677	777	331	2005	1650	550	137	650	175	485	65	23	577	1092
	110	241	495	356	1100	340	417	725	777	281	2195	1750	615	137	650	225	555	65	23	602	1332
PMT - 1202	132	241	495	356	1100	340	417	725	777	281	2195	1750	615	137	650	225	555	65	23	602	1402
	160	241	495	356	1296	340	545	1128	905	261	2391	1850	700	265	675	250	620	80	27	660	1840
	160	261	609	386	1296	340	545	1128	905	375	2555	2000	700	265	750	250	620	80	27	758	1938
PMT - 1203	55	272	283	391	825	375	447	732	822	178	1774	1350	550	137	550	125	490	65	23	402	787
	75	272	283	391	910	375	447	707	822	103	1859	1500	600	137	550	200	540	65	23	425	905
	90	272	283	391	910	375	447	707	822	103	1859	1500	600	137	550	200	540	65	23	425	940
PMT - 1204	75	272	398	391	910	375	447	707	822	218	1974	1600	600	137	600	200	540	65	23	519	999
	90	272	398	391	910	375	447	707	822	218	1974	1600	600	137	600	200	540	65	23	519	1034
	110	272	398	391	1100	375	472	780	847	218	2164	1700	600	162	650	200	530	75	23	539	1269
PMT - 1502	132	272	398	391	1100	375	472	780	847	218	2164	1700	600	162	650	200	530	75	23	539	1339
	110	272	513	391	1100	375	472	780	847	333	2279	1800	600	162	700	200	530	75	23	633	1363
	132	272	513	391	1100	375	472	780	847	333	2279	1800	600	162	700	200	530	75	23	633	1433
PMV - 1502	160	272	513	391	1296	375	482	1065	857	283	2475	1900	720	172	700	250	650	75	23	679	1859
	200	272	513	391	1296	375	482	1065	857	283	2475	1900	720	172	700	250	650	75	23	679	1959
	200	297	350	431	1296	425	587	1170	1012	180	2377										

Multi-Stage Pumps

Ring Section Pumps



Multi-Stage Pump

기술 DATA

General Data						
MODEL	Suc.Size	Dis.Size	Max. Working Pressure	Casing Thickness	Wearing Ring	
					Impeller Ring	Casing Ring
PMT-40	50	40	28 kgf/cm ²	8	No	No
PMT-50	65	50	28 kgf/cm ²	8	No	No
PMT-65	80	65	28 kgf/cm ²	8	No	No
PMT-80	100	80	20(28) kgf/cm ²	14	No	2EA x Number of Stage
PMT-10	125	100	20(28) kgf/cm ²	16	No	2EA x Number of Stage
PMT-12	150	125	18(24) kgf/cm ²	16	No	2EA x Number of Stage
PMV-80	100	80	18(25) kgf/cm ²	14	No	2EA x Number of Stage
PMV-10	125	100	18(24) kgf/cm ²	14	No	2EA x Number of Stage
PMV-12	150	125	18(21) kgf/cm ²	14	No	2EA x Number of Stage
PMV-15	200	150	18(24) kgf/cm ²	16	No	2EA x Number of Stage

Impeller Data									
MODEL	Max.Dia.	Min. Dia.	Eye Dia.	No. of Vane	Max. Stage				
					50Hz		60Hz		
					4Pole	2Pole	4Pole	2Pole	
PMT-40	161	130	70	6	12	11	12	8	
PMT-50	181	155	80	6	9	9	9	6	
PMT-65	206	165	100	6	7	7	7	4	
PMT-80	225	180	112	7	12	3	12	3	
PMT-10	269	200	138	7	8	2	8	2	
PMT-12	320	260	165	5	5	-	4	-	
PMV-80	266	206	102	5	6	-	6	-	
PMV-10	286	246	120	5	6	-	6	-	
PMV-12	310	280	152	5	4	-	4	-	
PMV-15	400	320	180	5	4	-	3	-	

Stuffing Box and Bearing Housing Data									
MODEL	Stuffing Box Size (Bore×Length)	O.D of Shaft Sleeve (PTO)	Packing Size (W×H×L)	Bearing No.	Size of Key at Coupling	Shaft Diameter			
						At Impeller	At Stuff. Box	At Coupling	At Bearing
PMT-40	∅51×45	∅35(40)	8×8×143	6305zzC3	8×7×36	∅25	∅25	∅24	∅25
PMT-50	∅56×55	∅40(45)	8×8×167	6306zzC3	8×7×45	∅30.5	∅30.5	∅29	∅30
PMT-65	∅65×55	∅45(50)	10×10×184	6307zzC3	10×8×45	∅35.5	∅35.5	∅34	∅35
PMT-80	∅70×60	∅50(55)	10×10×199	Drive:6308zzC3 End:6311zzC3	12×8×50	∅40	∅40	∅40	Drive:∅40 End:∅30
PMT-10	∅75×62	∅55(60)	10×10×215	Drive:6309zzC3 End:6311zzC3	14×9×68	∅45	∅45	∅45	Drive:∅45 End:∅30
PMT-12	∅85×80	∅60(65)	12.5×12.5×227	Drive:6311zzC3 End:7213B DB(2)	16×10×92	∅50	∅50	∅54	Drive:∅55 End:∅41
PMV-80 PMV-10	∅70×62	∅50(55)	10×10×199	Drive:6308zzC3 End:6311zzC3	10×8×50	∅37	∅37	∅38	Drive:∅40 End:∅30
PMV-12	∅75×62	∅55(60)	10×10×215	Drive:6310zzC3 End:6311zzC3	14×9×68	∅45	∅45	∅45	Drive:∅50 End:∅30
PMV-1205	∅75×62	∅55(60)	10×10×215	Drive:6310zzC3 End:5311C3	14×9×80	∅45	∅45	∅49	Drive:∅50 End:∅37
PMV-15	∅95×80	∅70(75)	12.5×12.5×260	Drive:6313zzC3 End:7313DB(2)	18×11×90	∅55	∅55	∅64	Drive:∅65 End:∅42

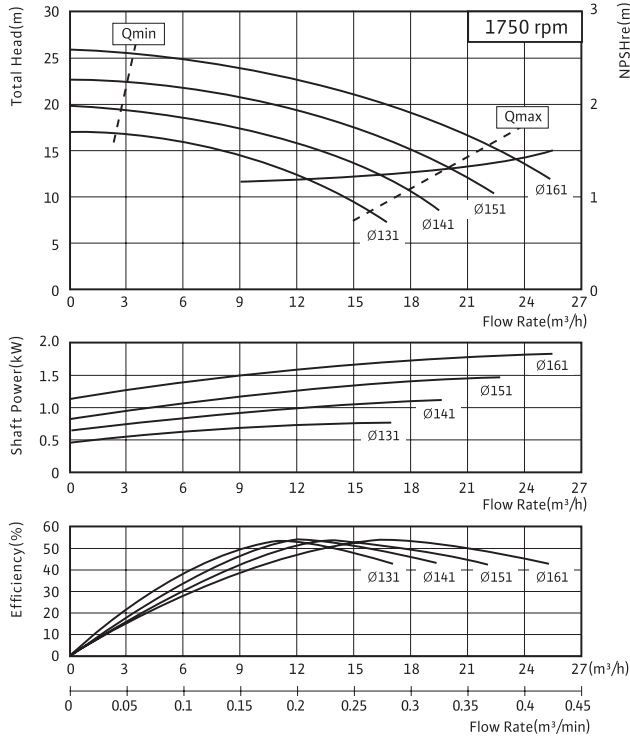
Multi-Stage Pumps

Ring Section Pumps

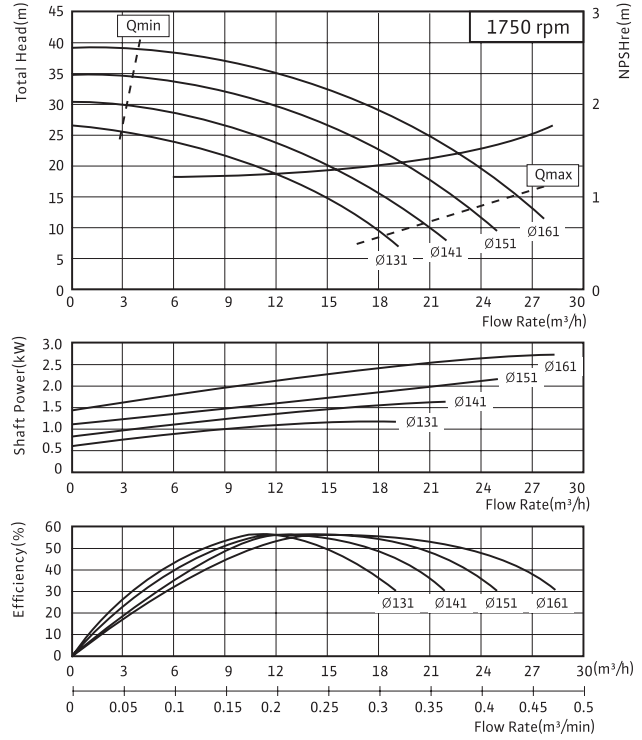
PMT- 4002 / 4003 / 4004 / 4005

성능곡선 4Pole

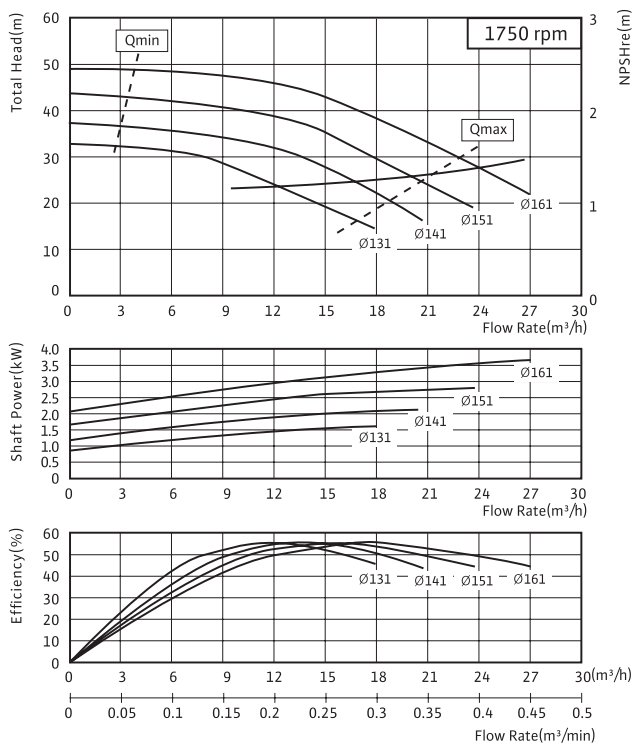
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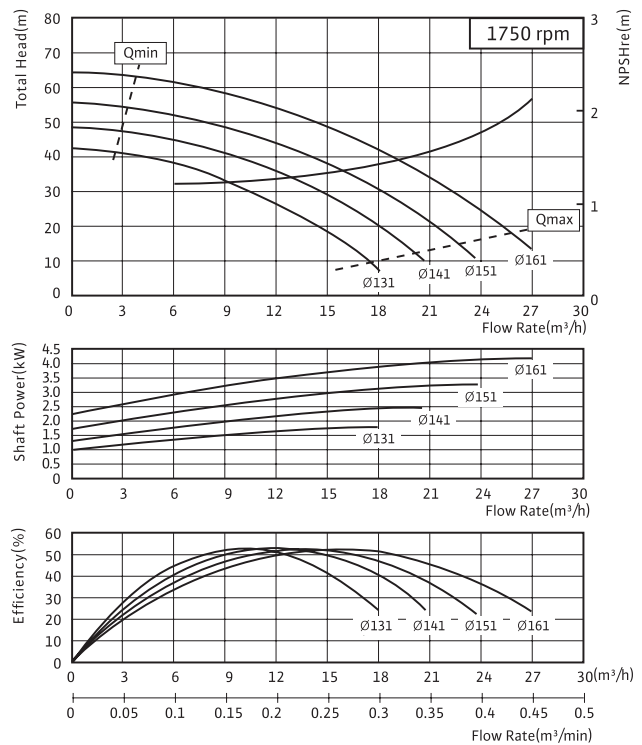
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PMT - 4004

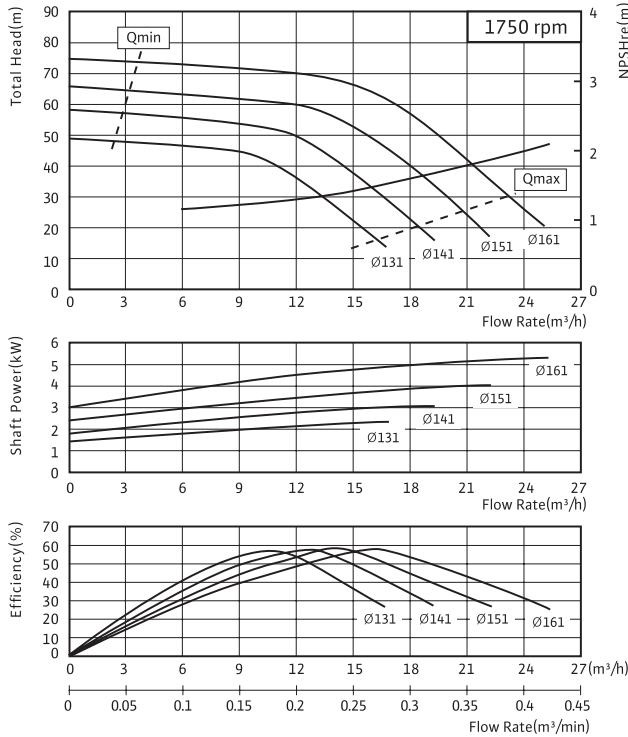


PMT - 4005

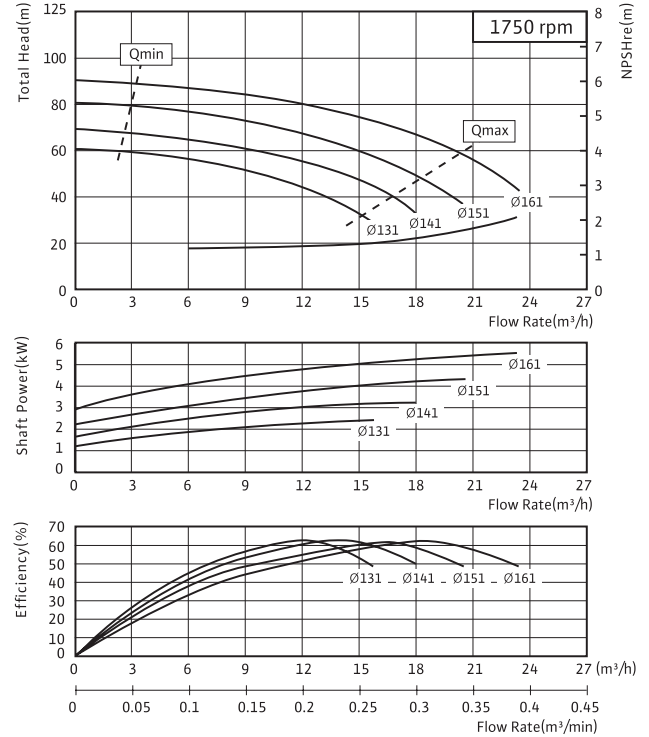


PMT- 4006 / 4007 / 4008 / 4009 성능곡선 4Pole

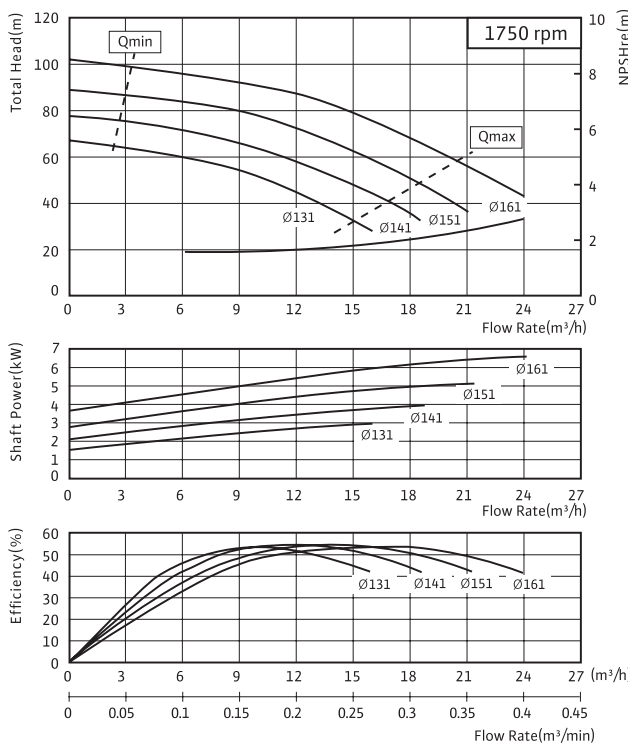
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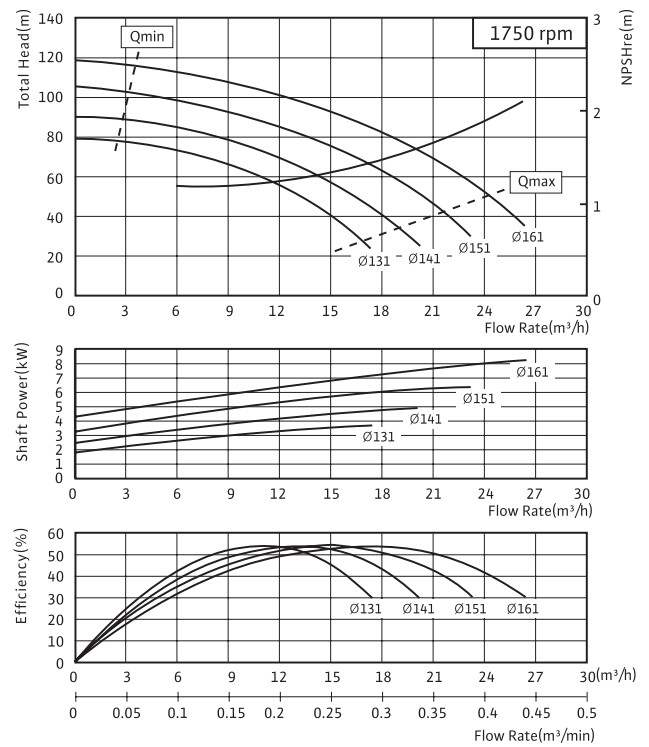
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PMT - 4008



PMT - 4009



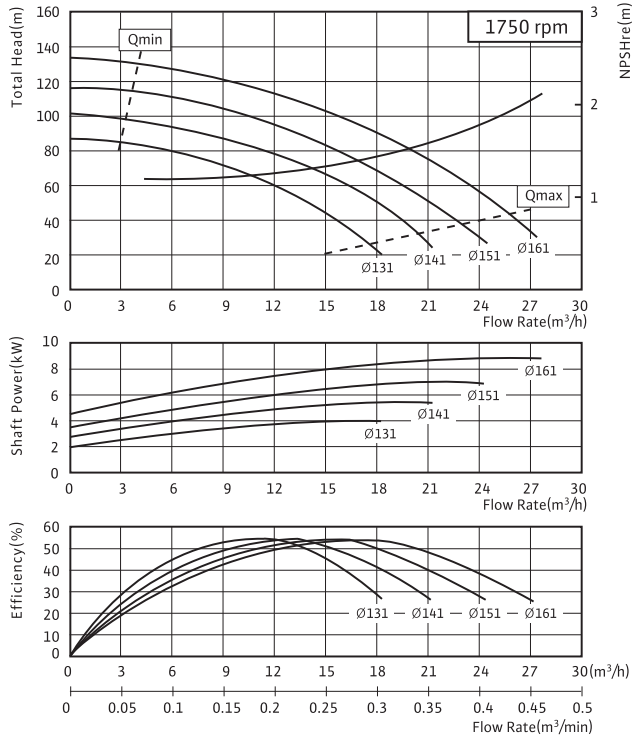
Multi-Stage Pumps

Ring Section Pumps

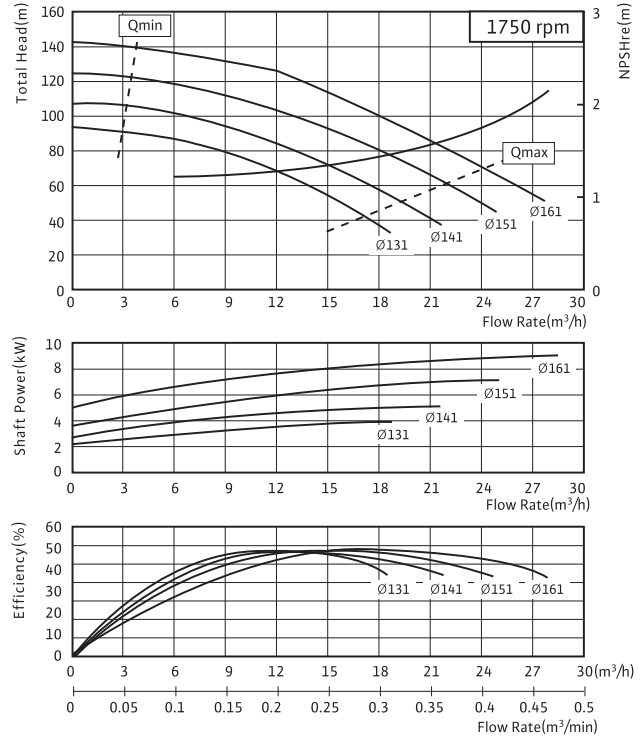
PMT- 4010 / 4011 / 4012 / 5002

성능곡선 4Pole

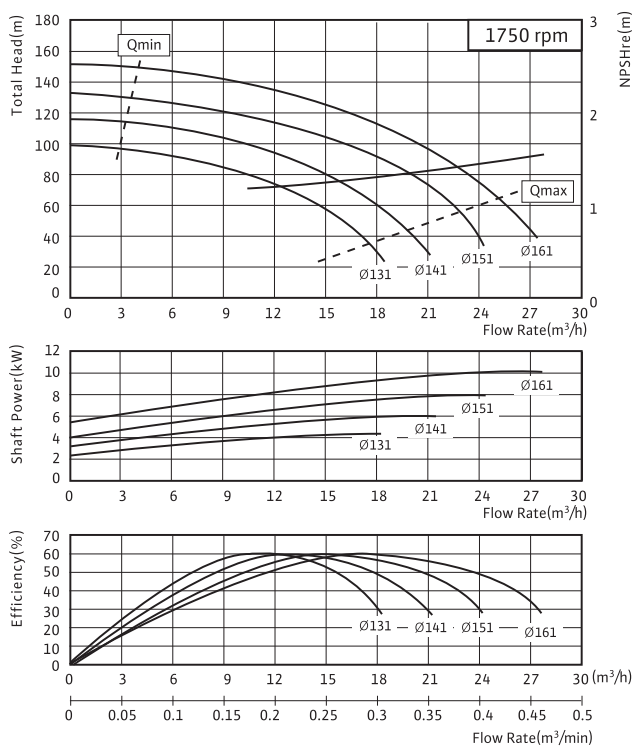
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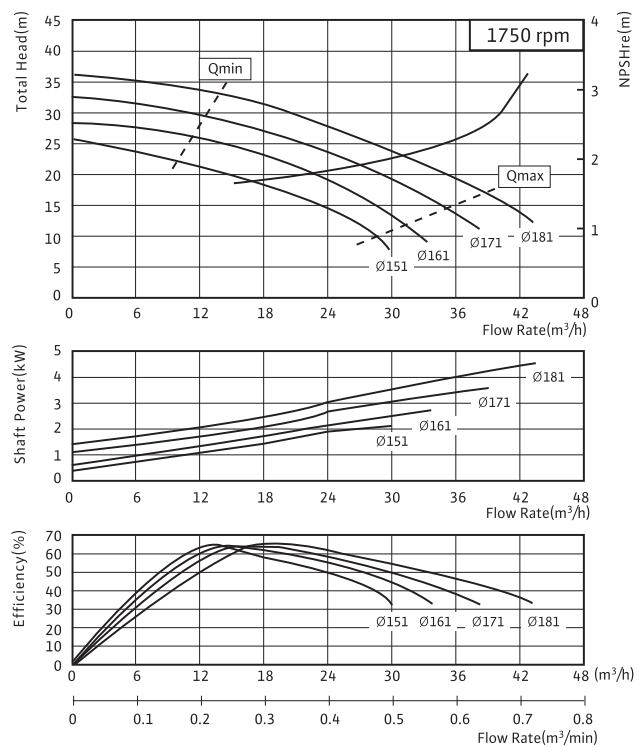
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PMT - 4012



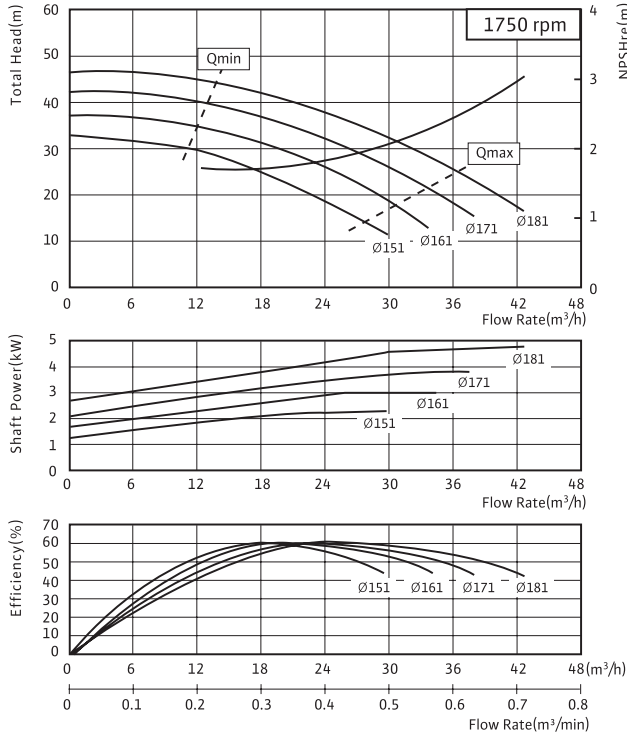
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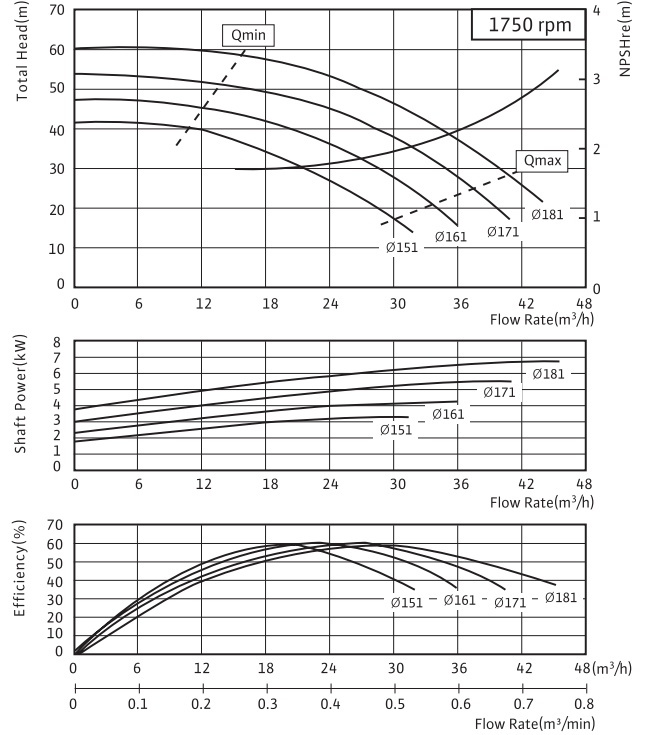
PMT- 5003 / 5004 / 5005 / 5006

성능곡선 4Pole

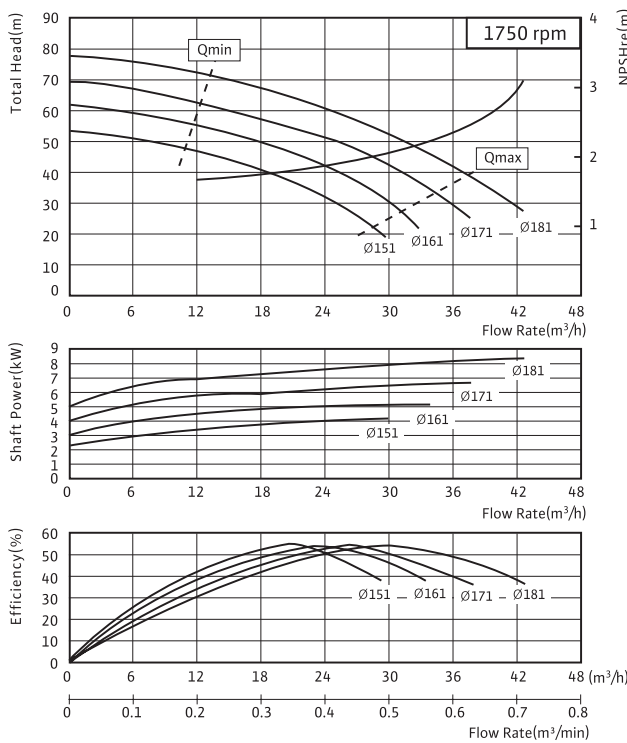
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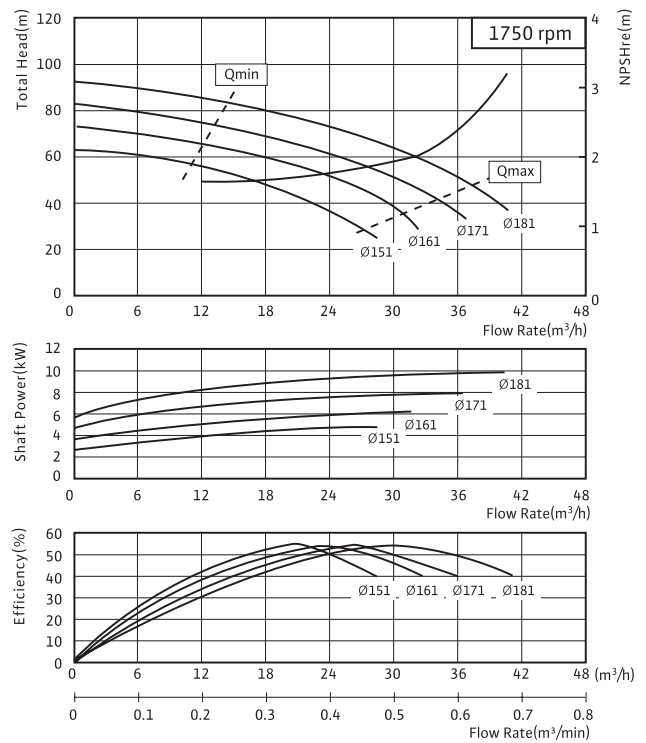
PMT - 5004



PMT - 5005



PMT - 5006



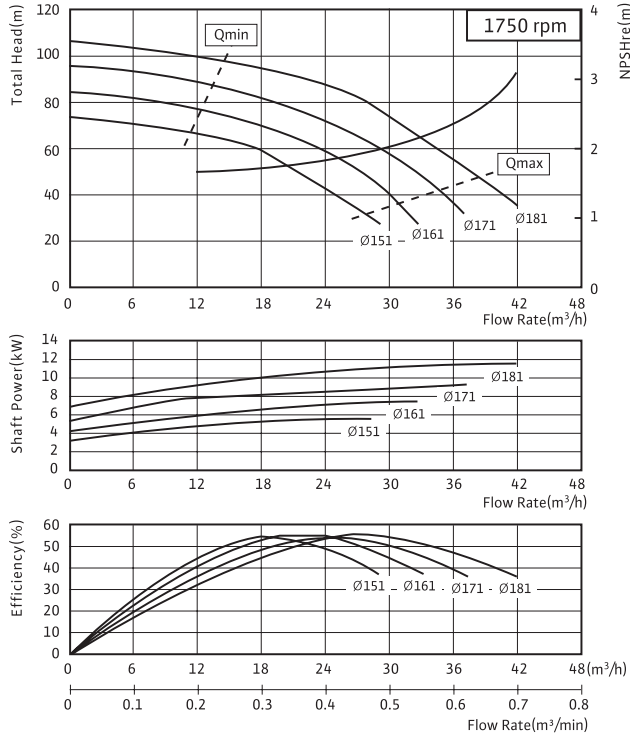
Multi-Stage Pumps

Ring Section Pumps

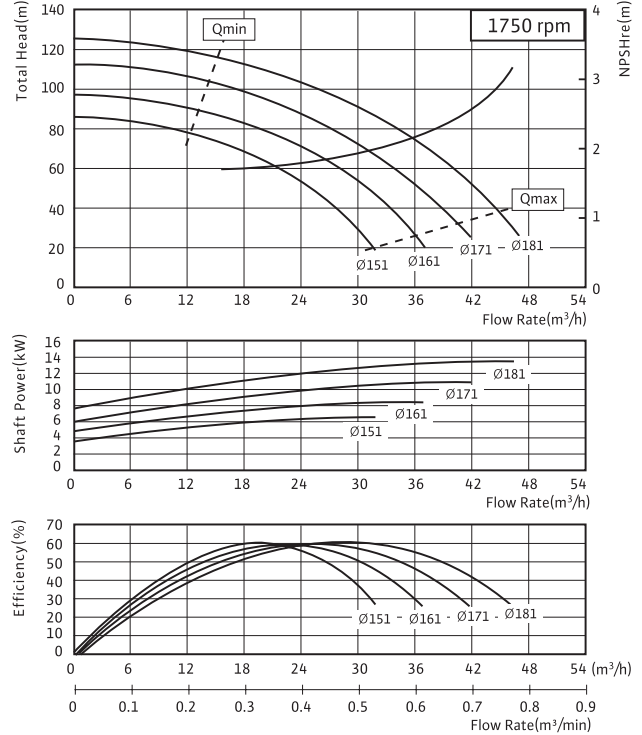
PMT- 5007 / 5008 / 5009 / 6502

성능곡선 4Pole

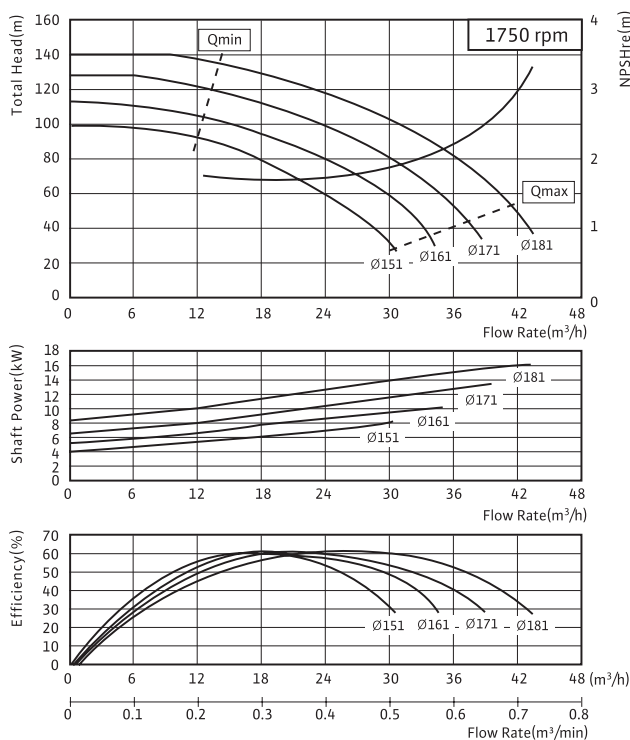
PMT - 5007



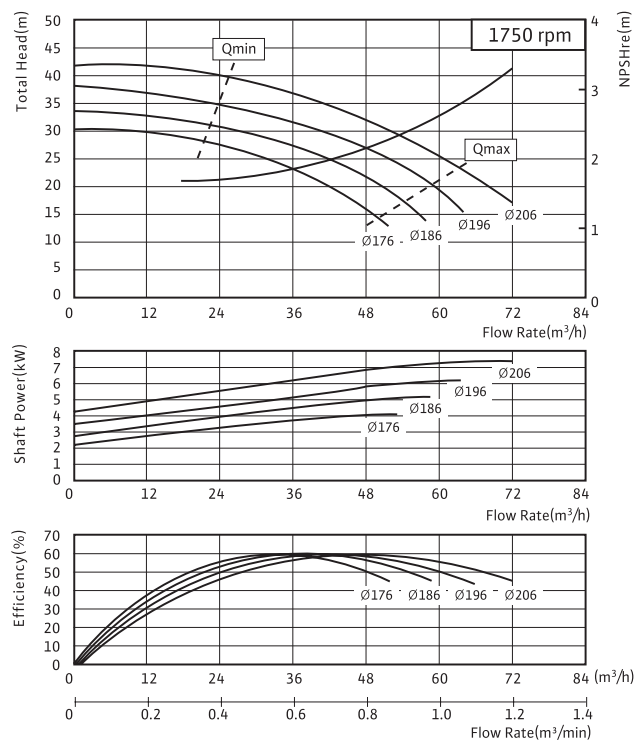
PMT - 5008



PMT - 5009



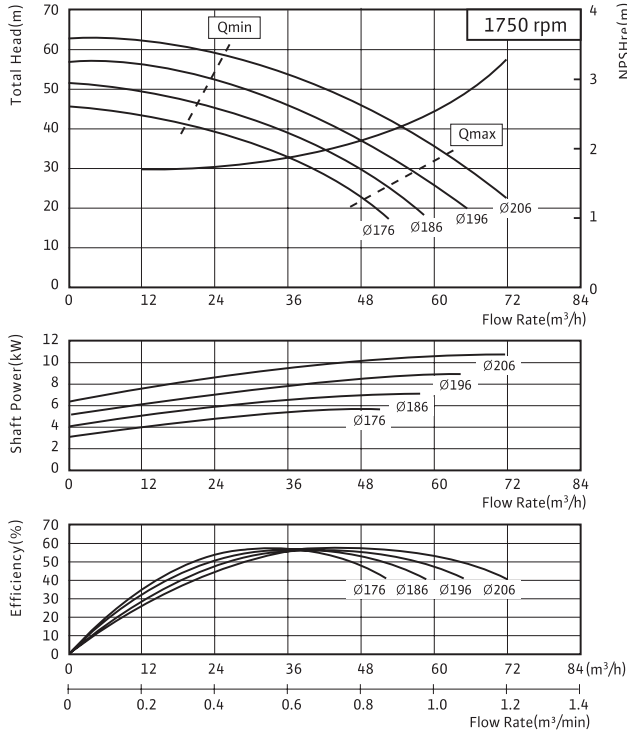
PMT - 6502



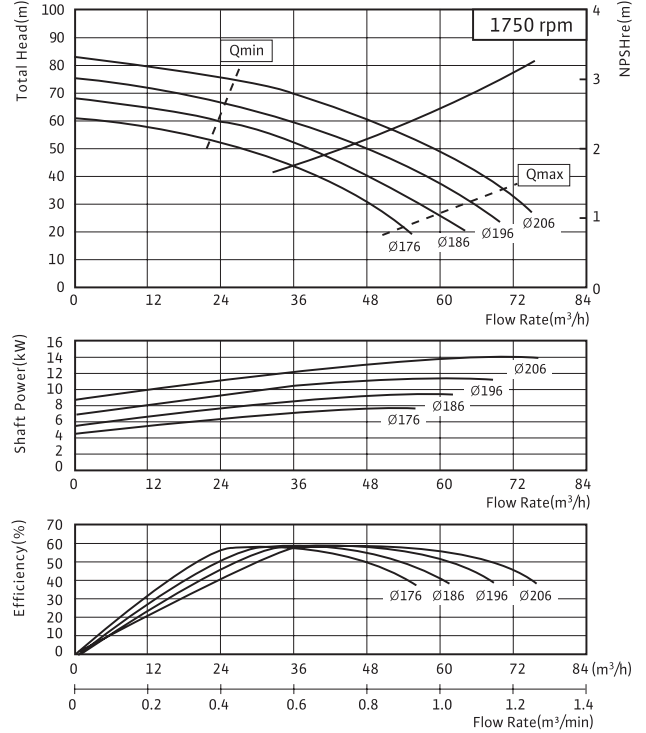
PMT- 6503 / 6504 / 6505 / 6506

성능곡선 4Pole

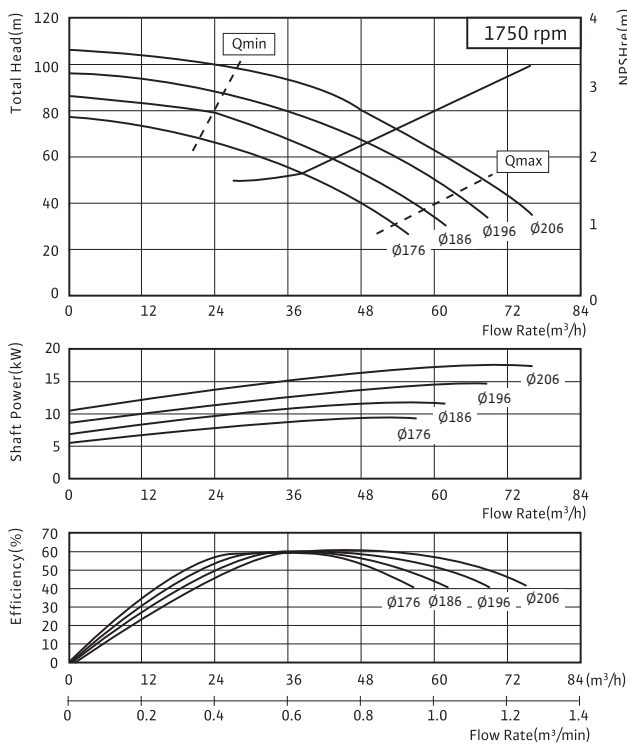
PMT - 6503



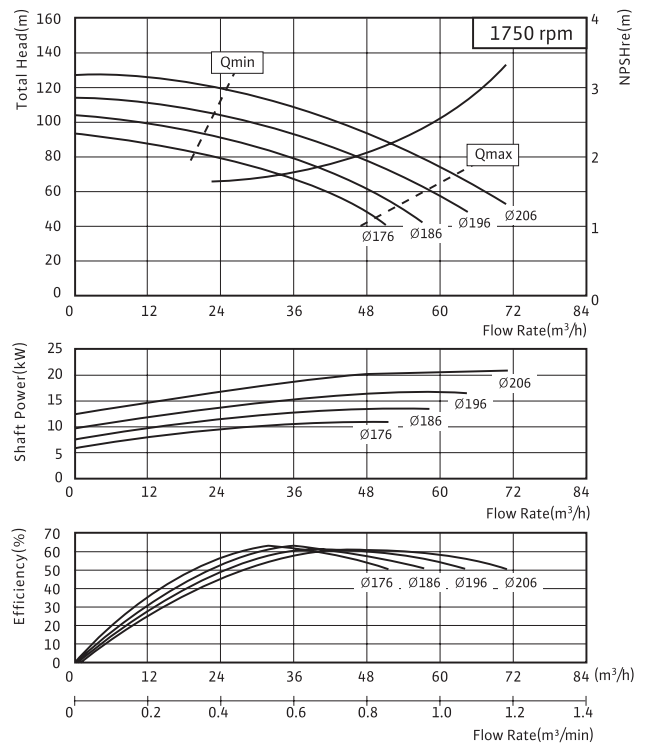
PMT - 6504



PMT - 6505



PMT - 6506



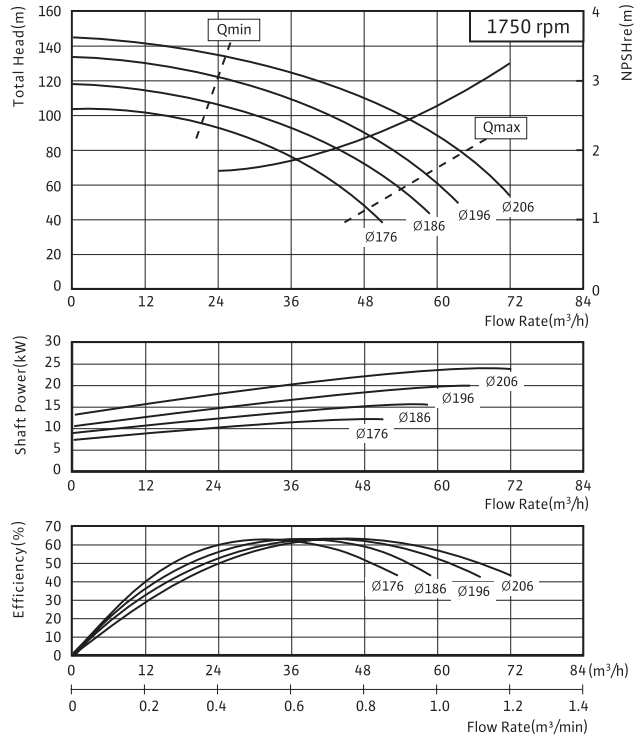
Multi-Stage Pumps

Ring Section Pumps

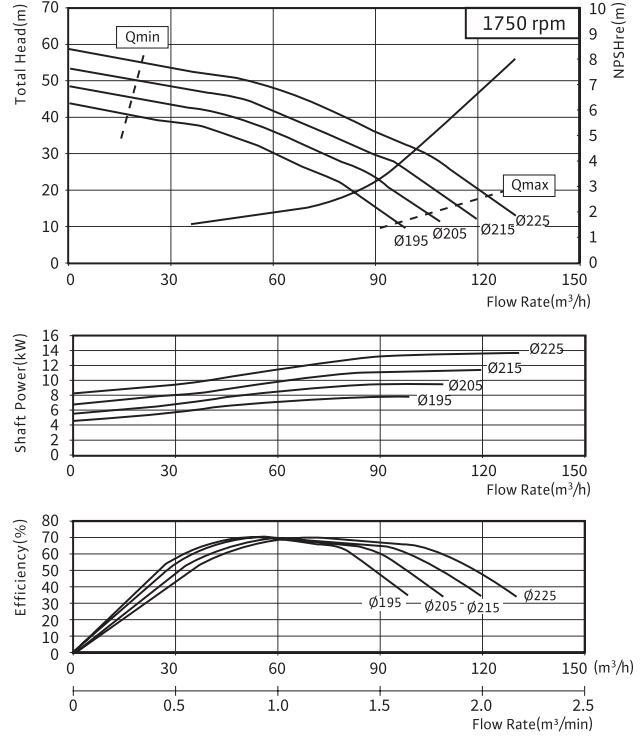
PMT- 6507 / 8002 / 8003 / 8004

성능곡선 4Pole

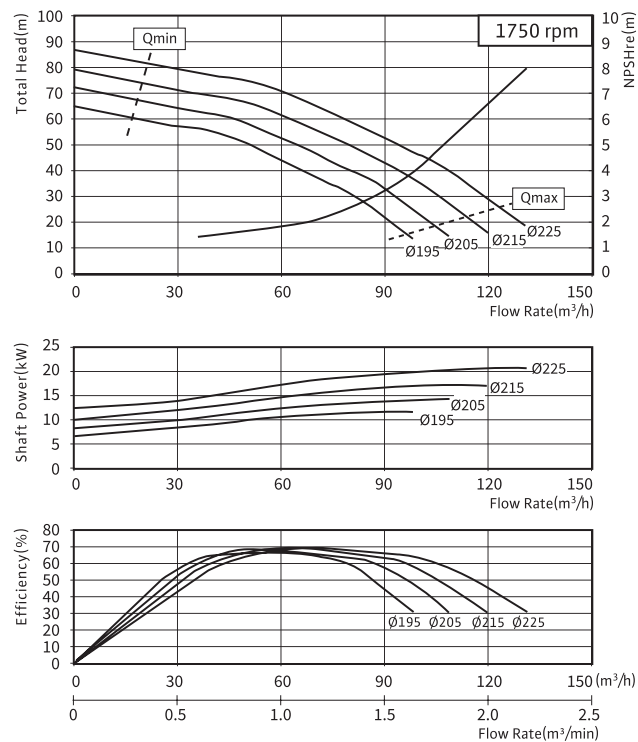
PMT - 6507



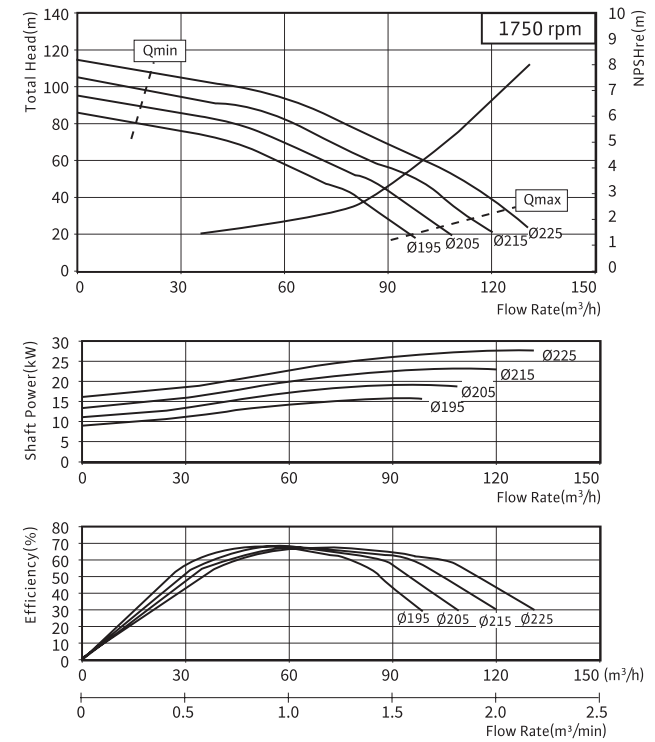
PMT - 8002



PMT - 8003



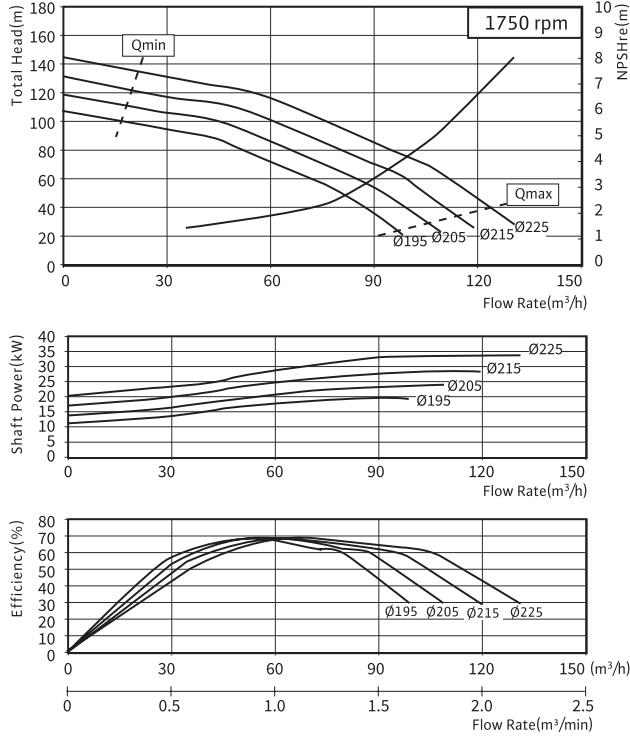
PMT - 8004



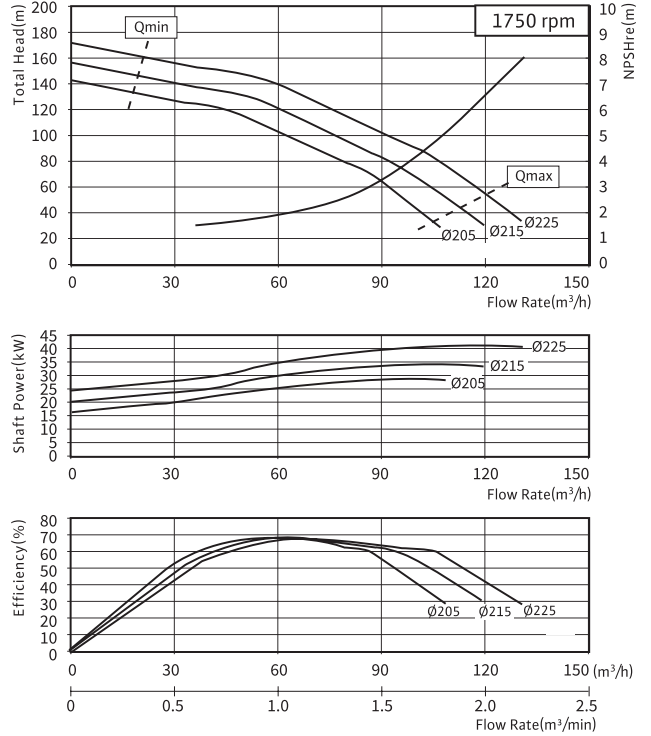
PMT- 8005 / 8006 / 8007 / 8008

성능곡선 4Pole

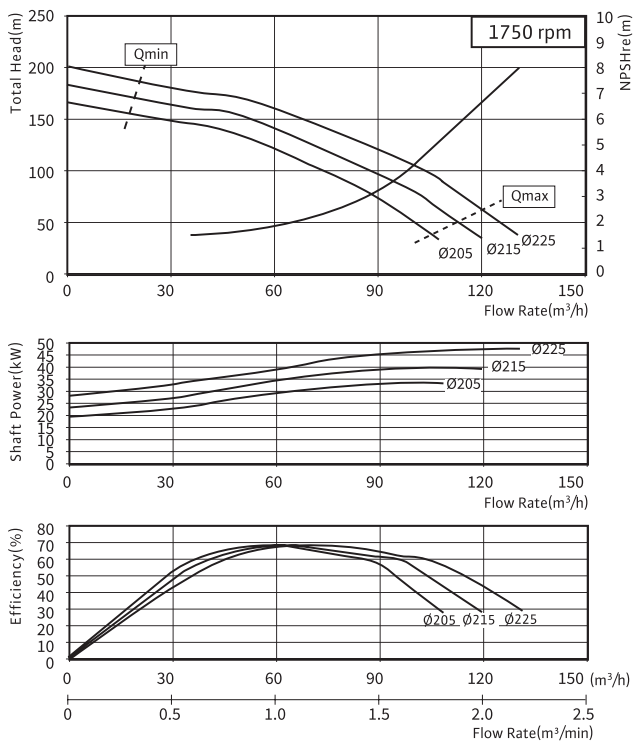
PMT - 8005



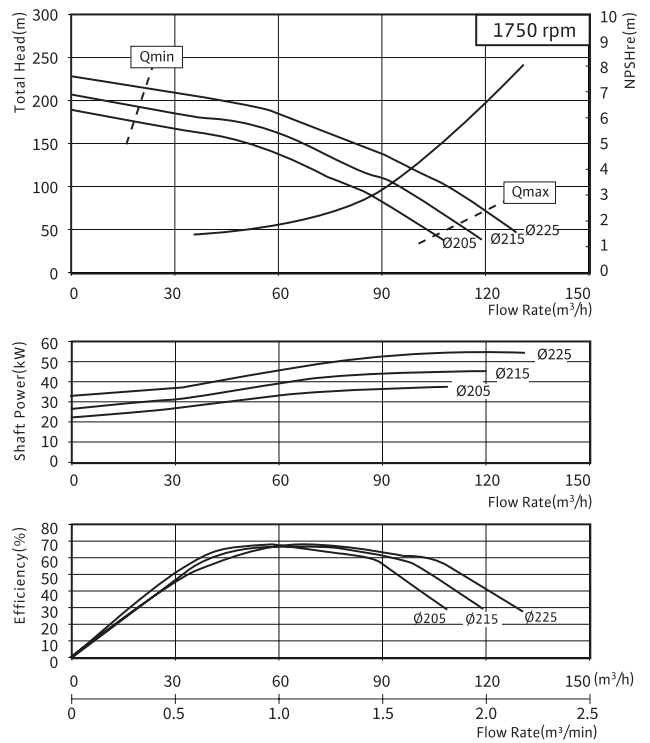
PMT - 8006



PMT - 8007



PMT - 8008



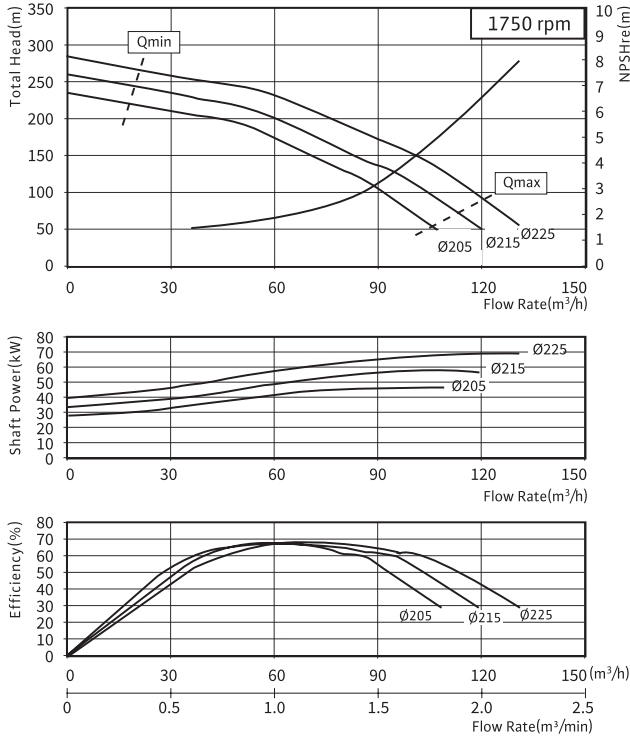
Multi-Stage Pumps

Ring Section Pumps

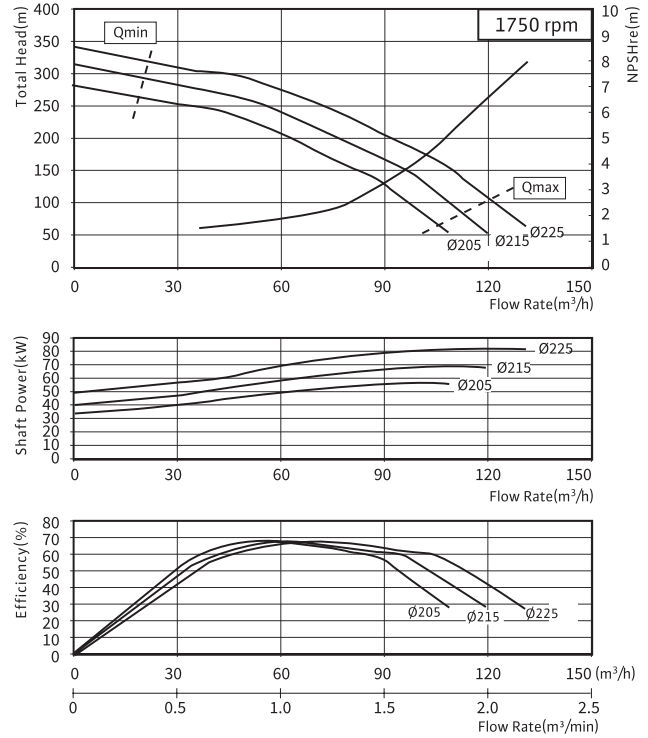
PMT- 8010 / 8012 / 1002 / 1003

성능곡선 4Pole

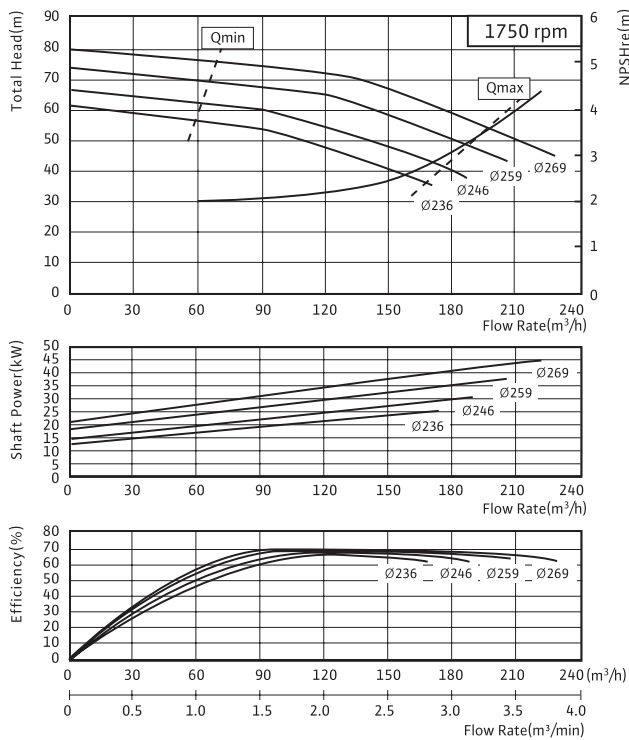
PMT - 8010



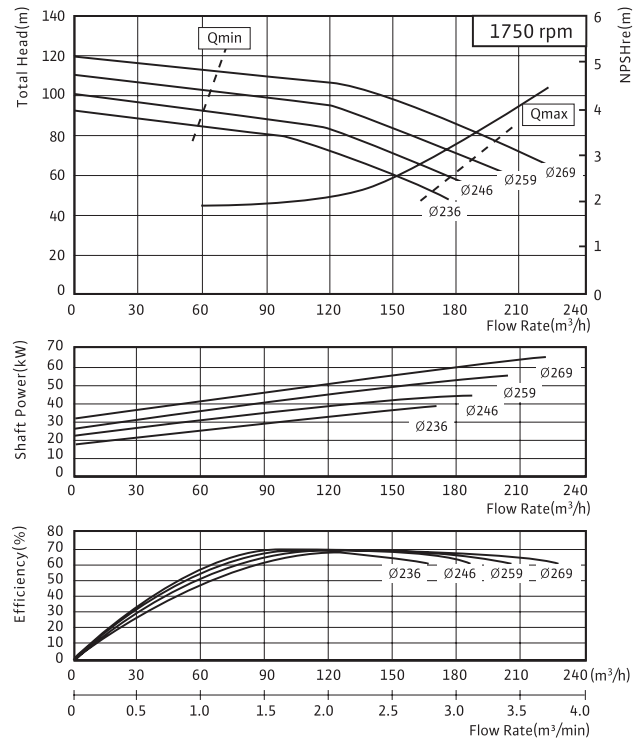
PMT - 8012



PMT - 1002

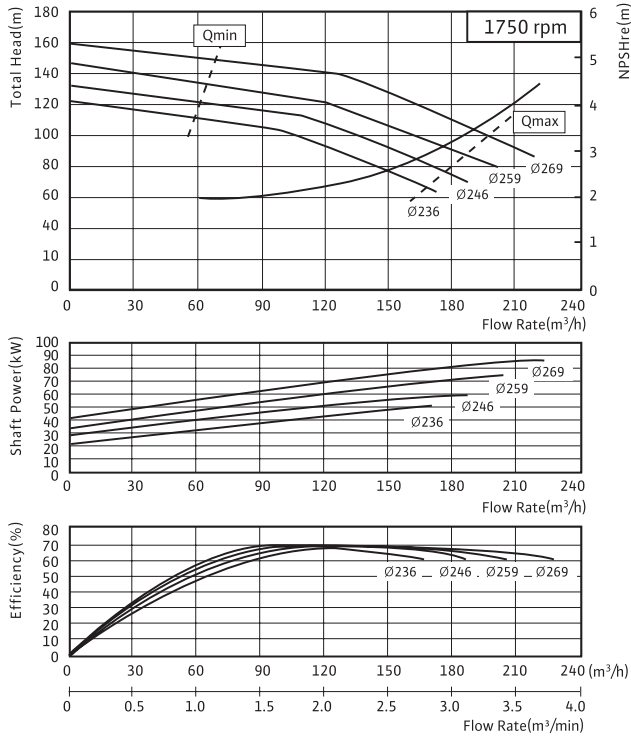


PMT - 1003

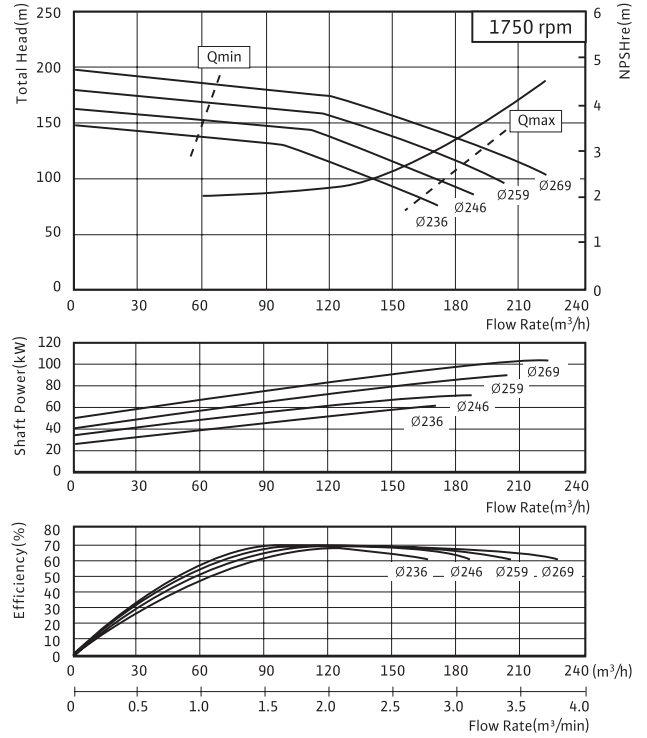


PMT- 1004 / 1005 / 1006 / 1007 성능곡선 4Pole

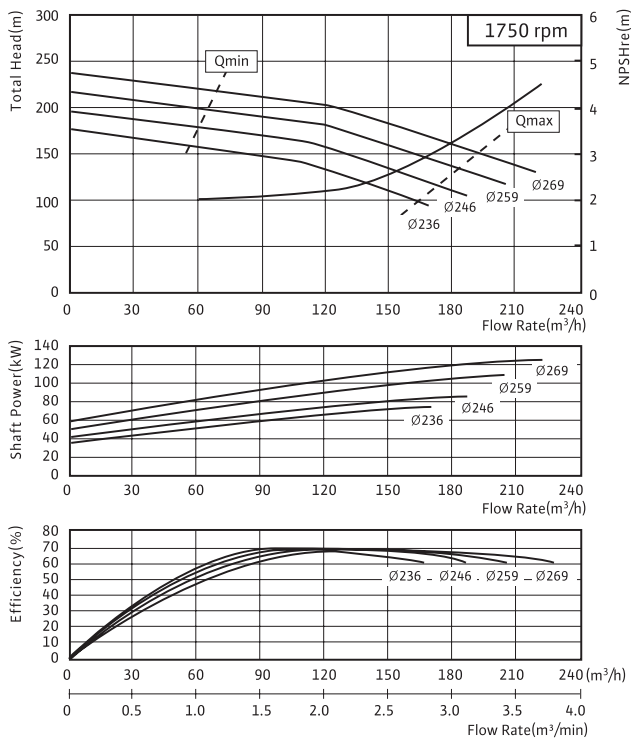
PMT - 1004



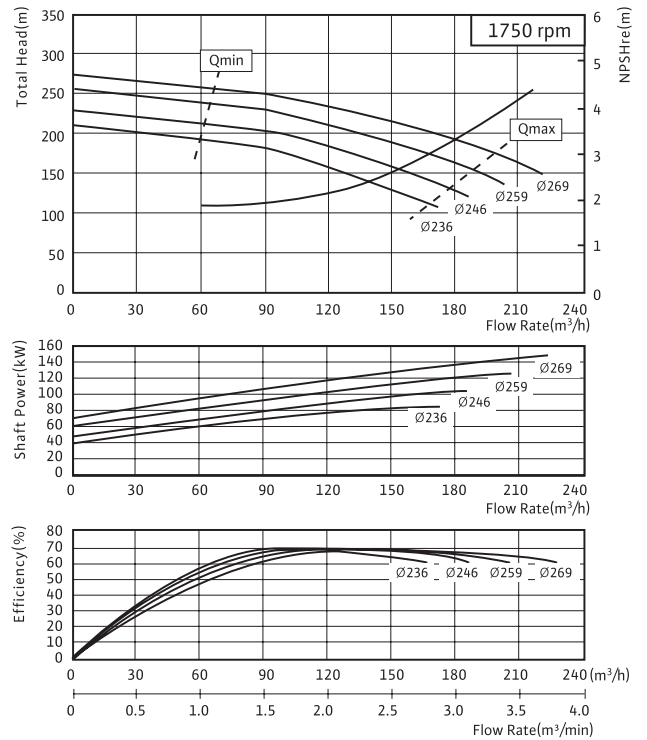
PMT - 1005



PMT - 1006



PMT - 1007



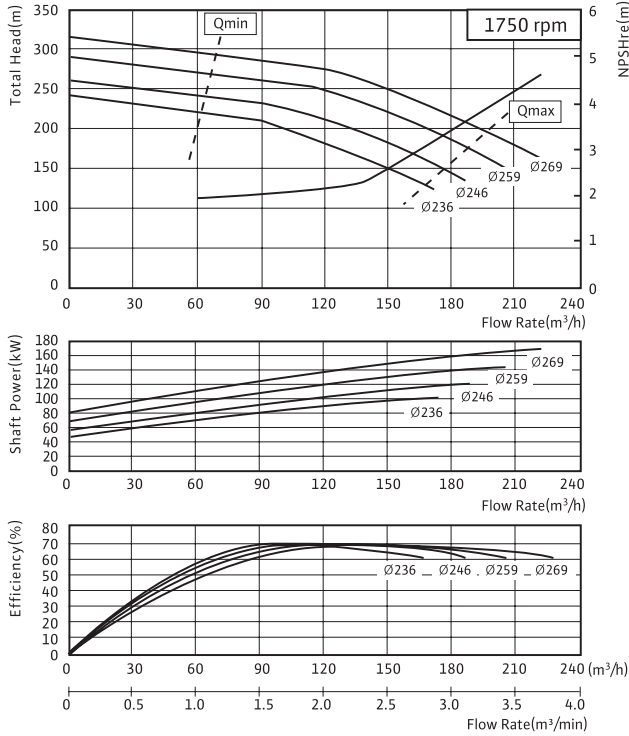
Multi-Stage Pumps

Ring Section Pumps

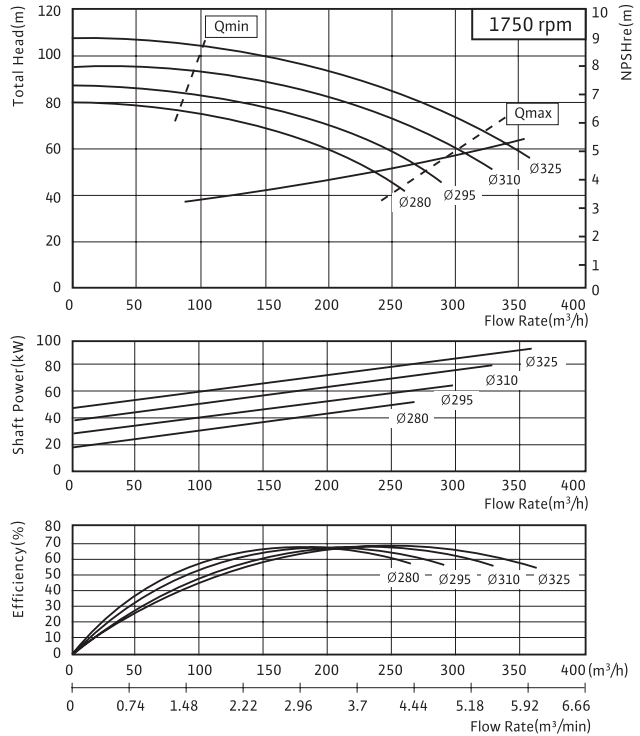
PMT- 1008 / 1202 / 1203 / 1204

성능곡선 4Pole

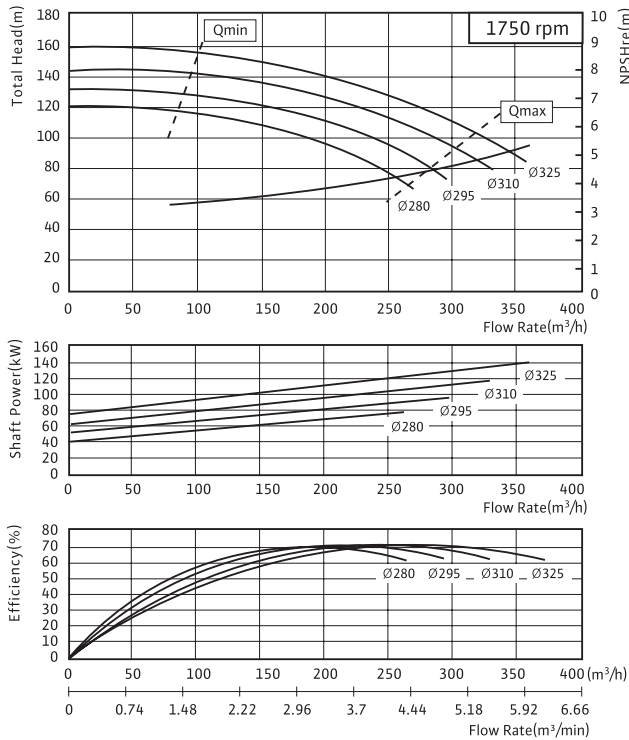
PMT - 1008



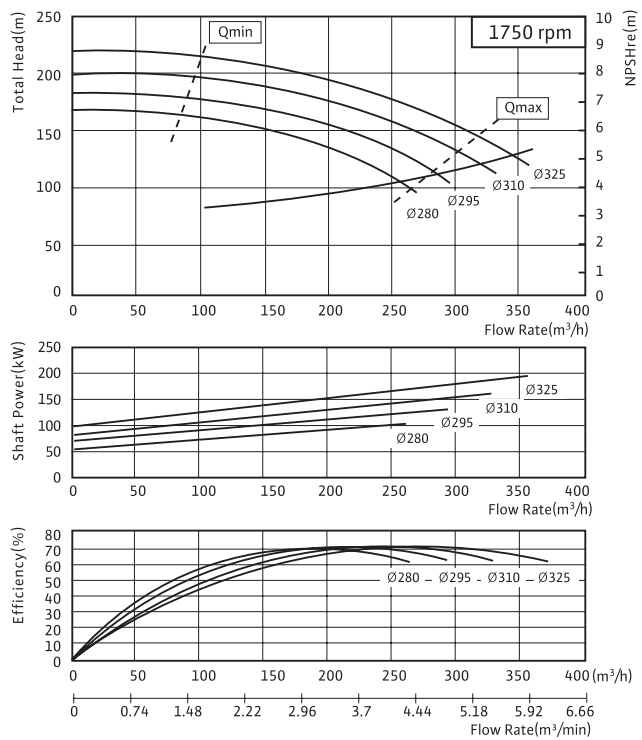
PMT - 1202



PMT - 1203

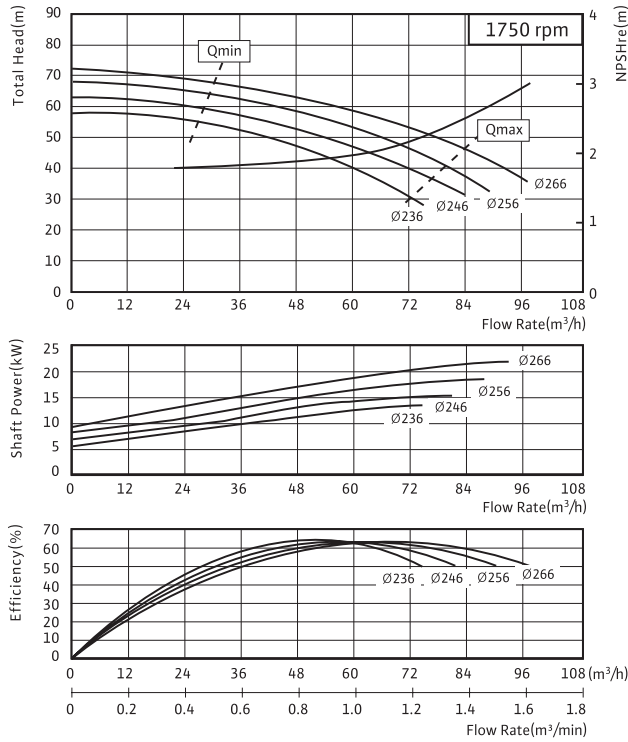


PMT - 1204

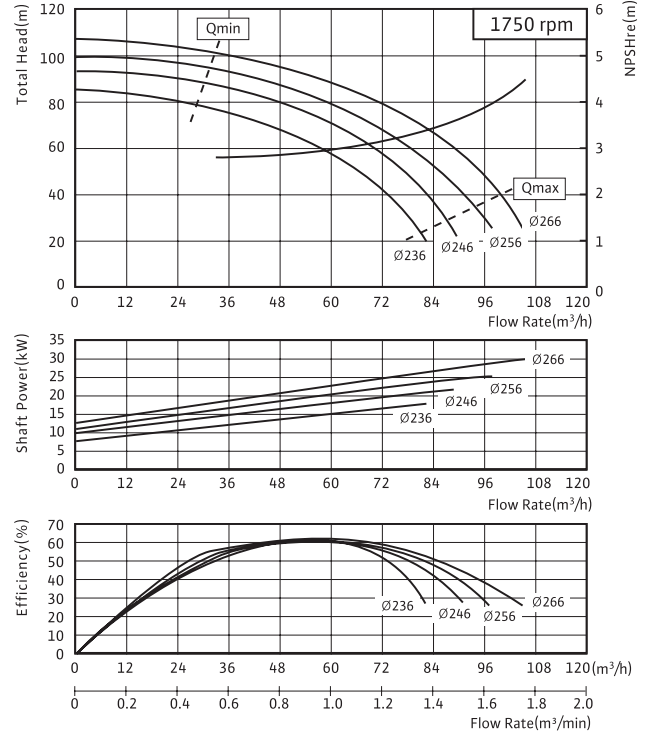


PMV- 8002 / 8003 / 8004 / 8005 성능곡선 4Pole

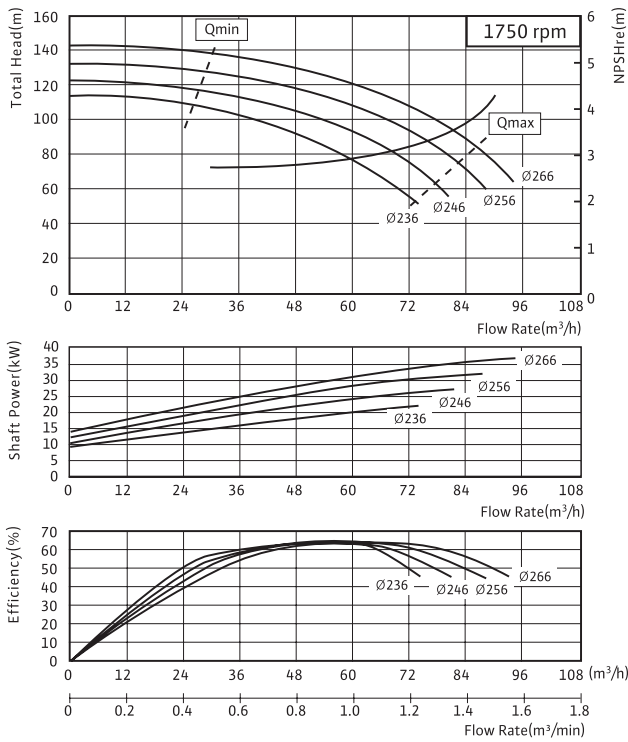
PMV - 8002



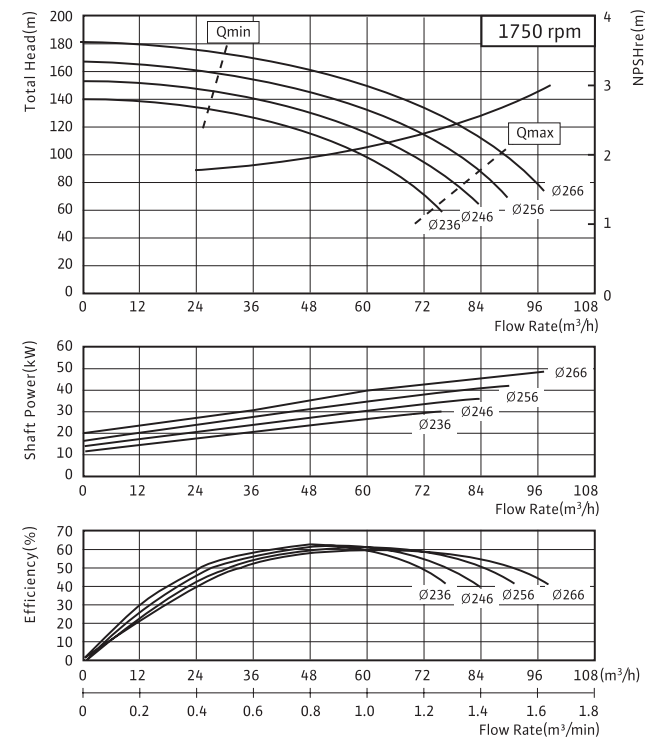
PMV - 8003



PMV - 8004



PMV - 8005



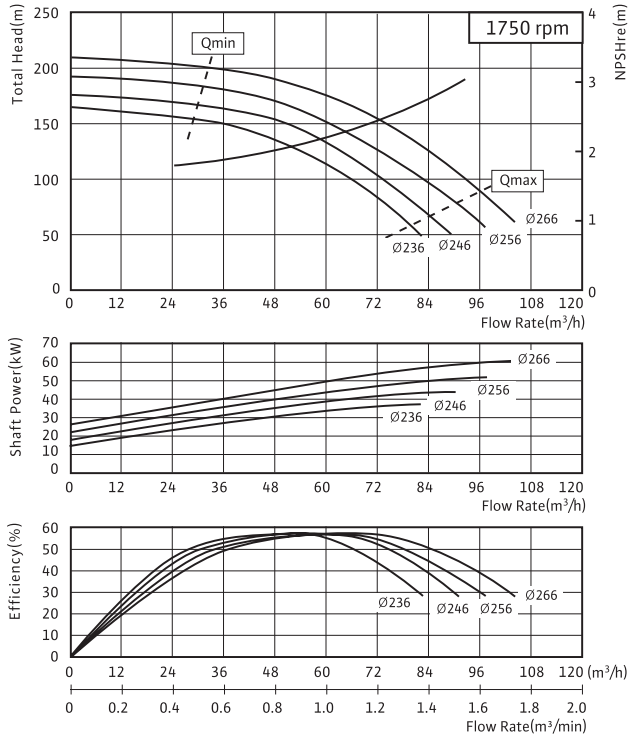
Multi-Stage Pumps

Ring Section Pumps

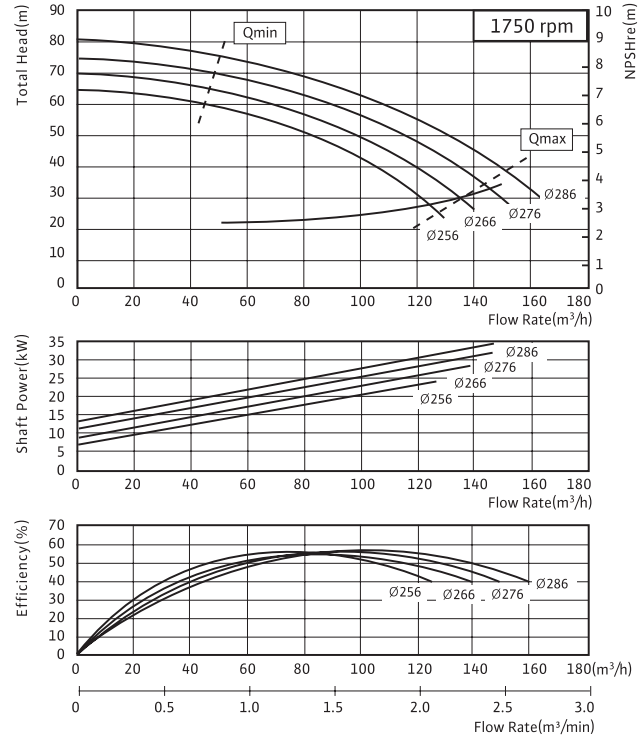
PMV- 8006 / 1002 / 1003 / 1004

성능곡선 4Pole

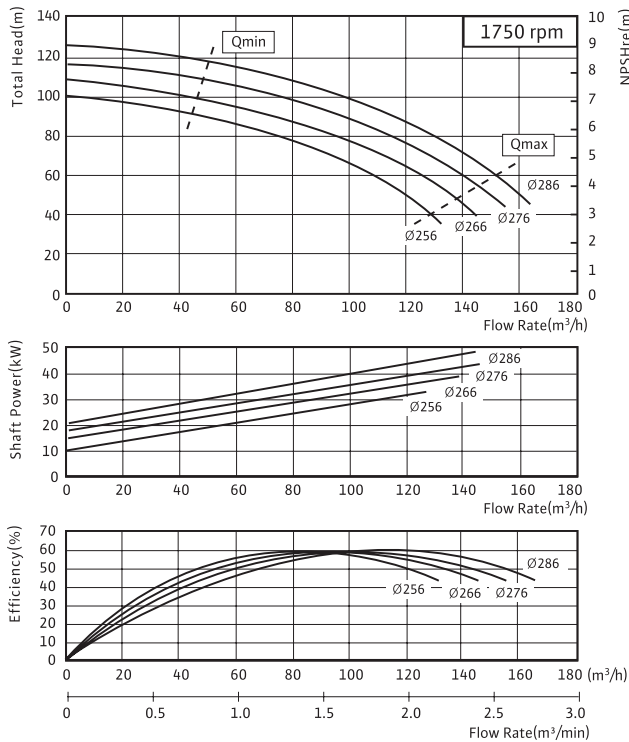
PMV - 8006



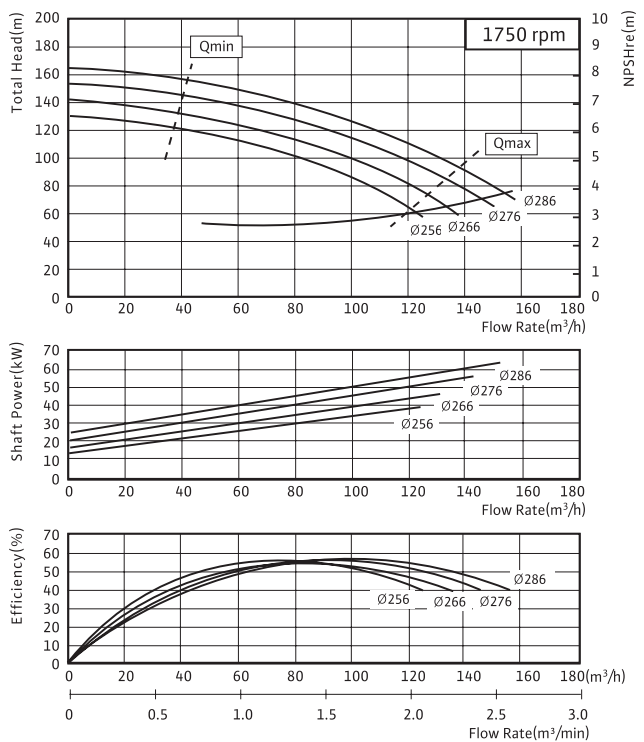
PMV - 1002



PMV - 1003

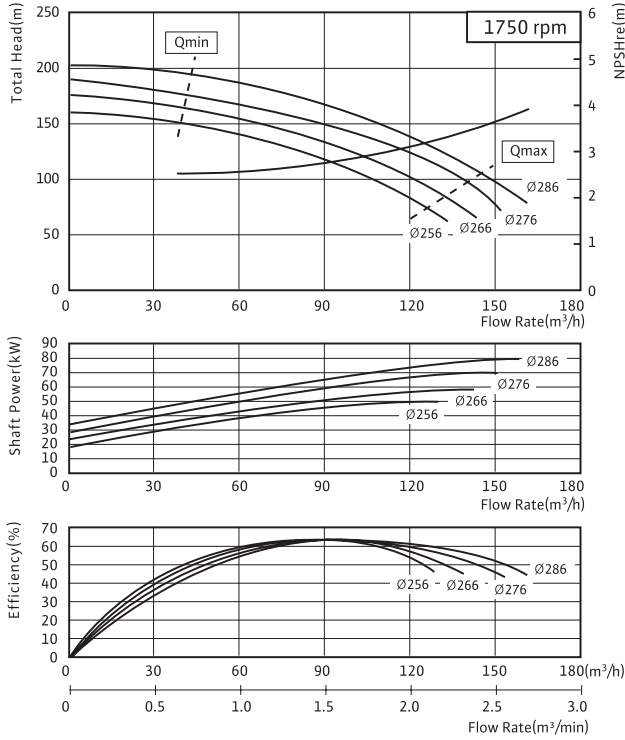


PMV - 1004

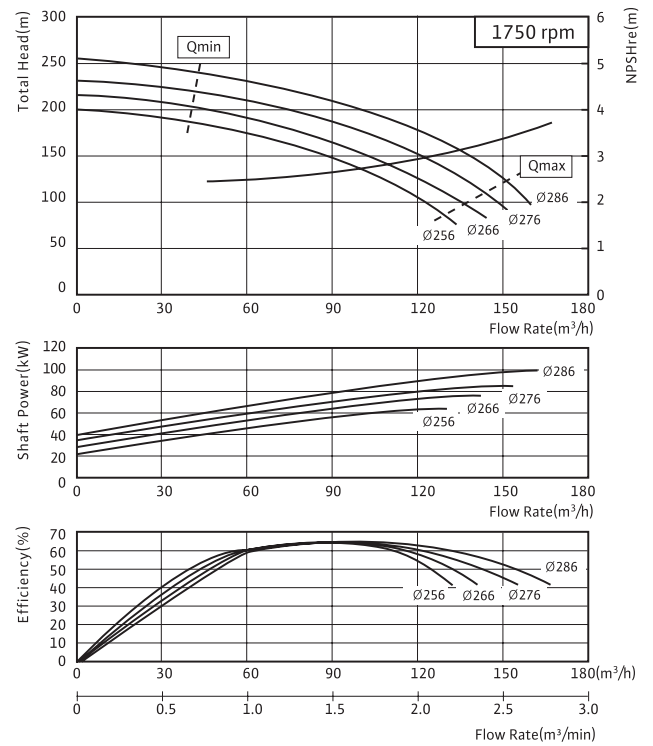


PMV- 1005 / 1006 / 1202 / 1203 성능곡선 4Pole

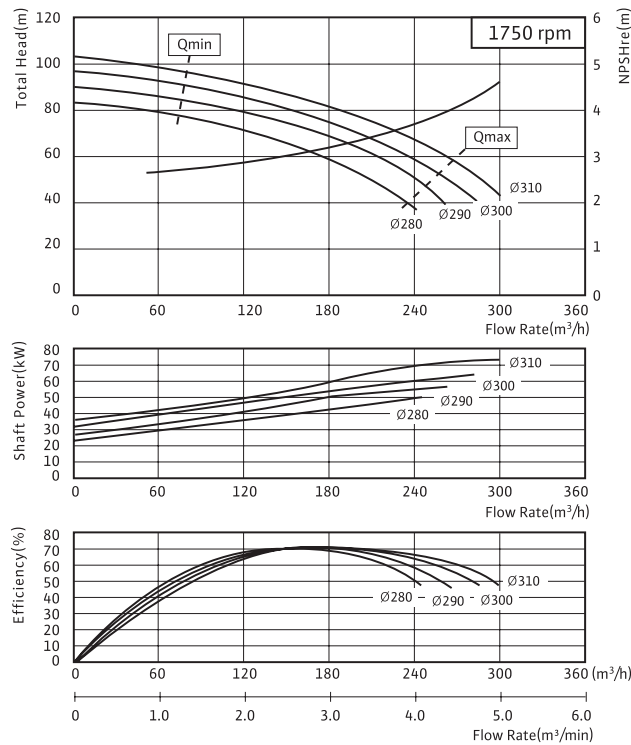
PMV - 1005



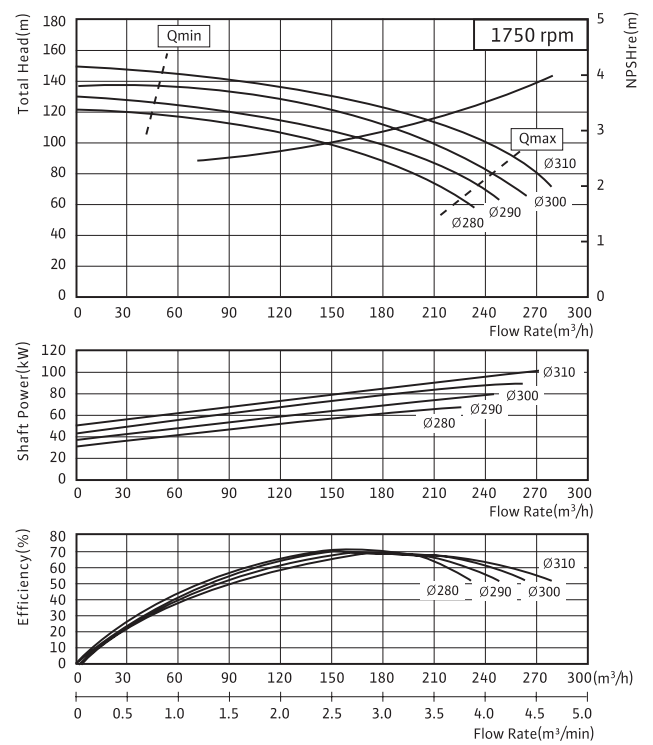
PMV - 1006



PMV - 1202



PMV - 1203



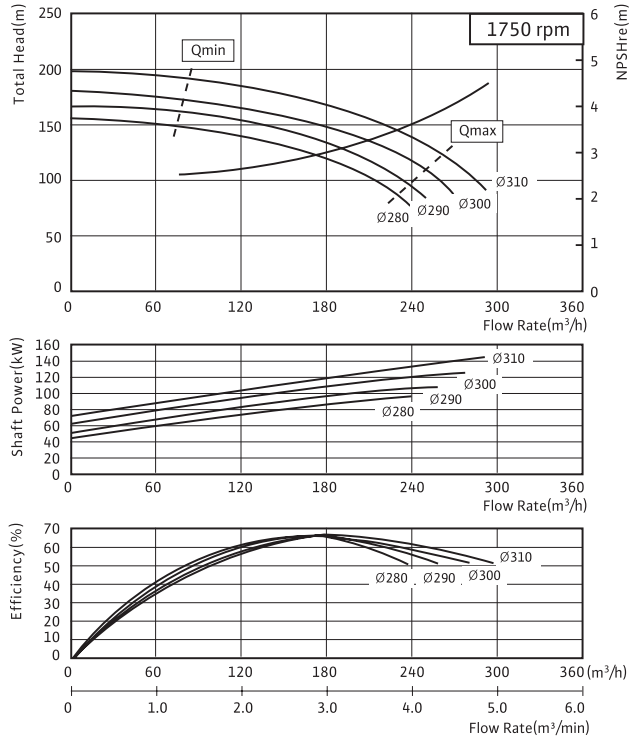
Multi-Stage Pumps

Ring Section Pumps

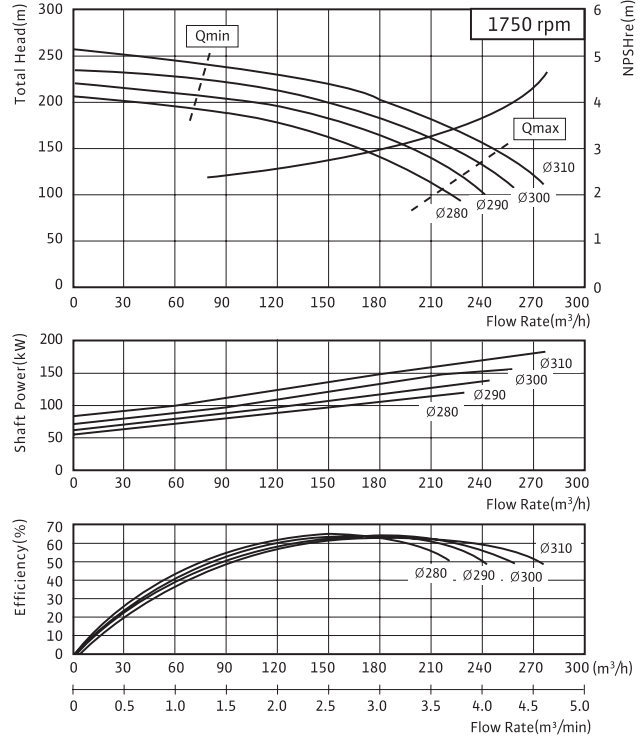
PMV- 1204 / 1205 / 1502 / 1503

성능곡선 4Pole

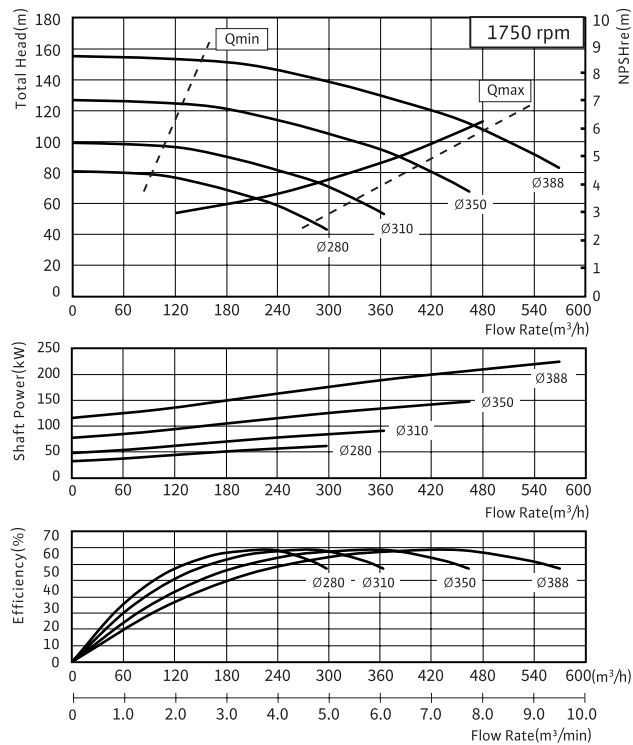
PMV - 1204



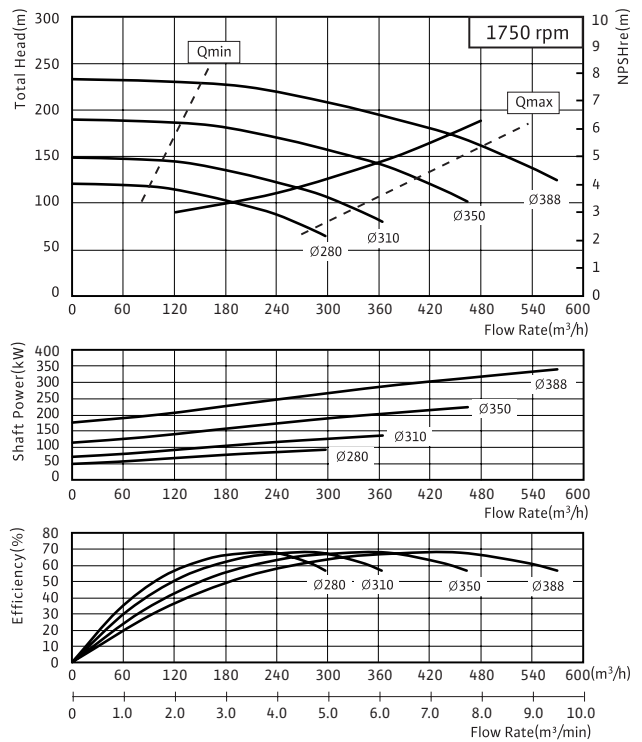
PMV - 1205



PMV - 1502



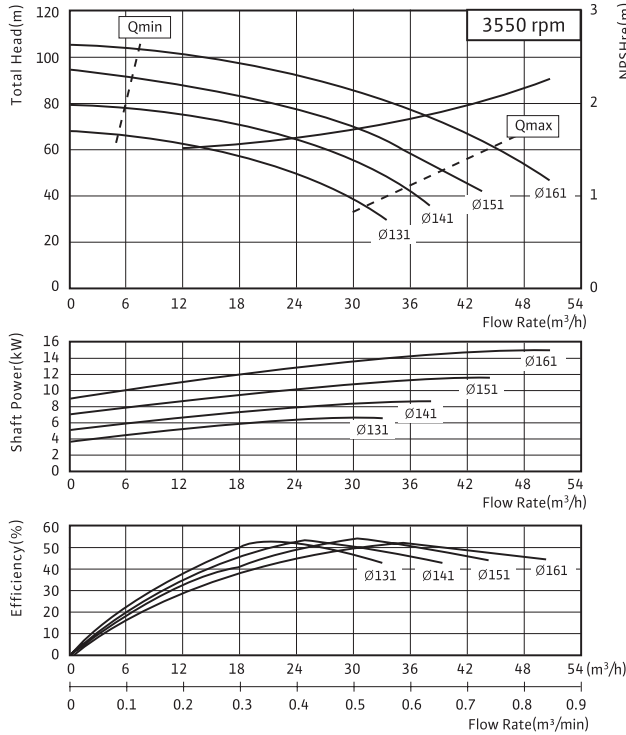
PMV - 1503



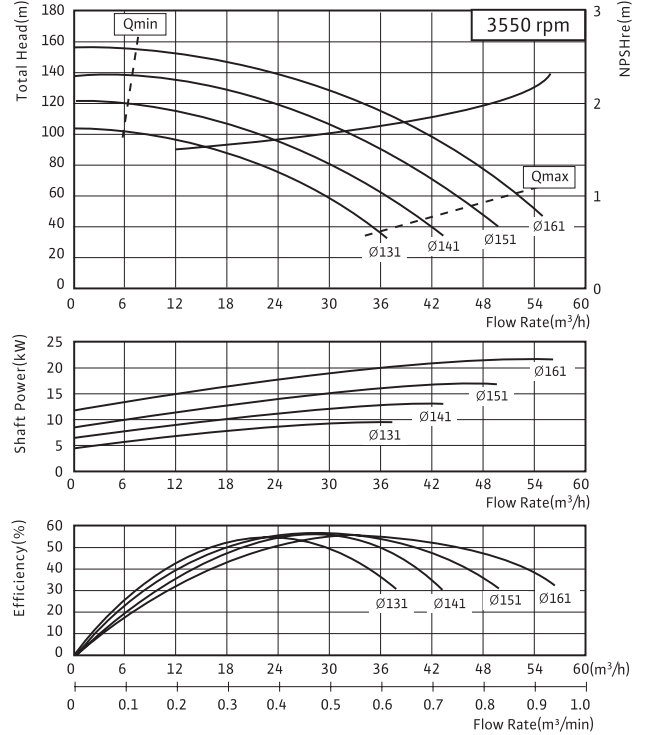
PMT- 4002 / 4003 / 4004 / 4005

성능곡선 2Pole

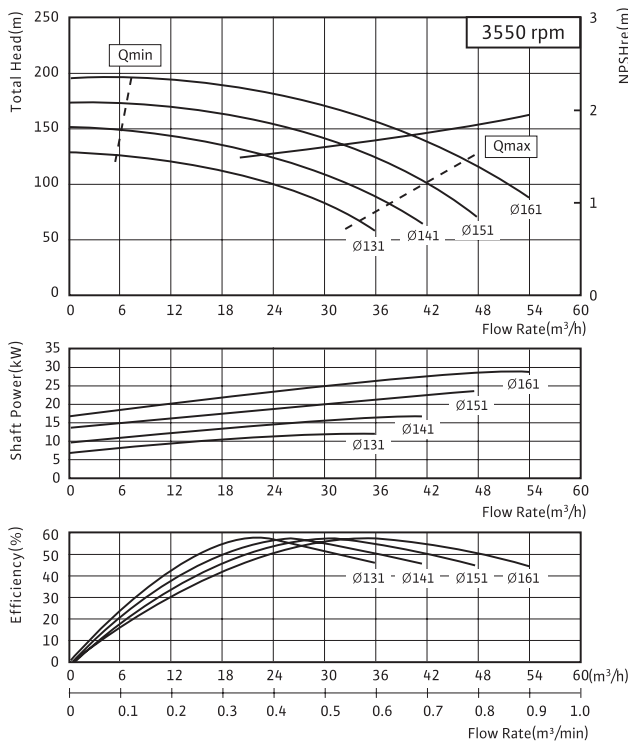
PMT - 4002



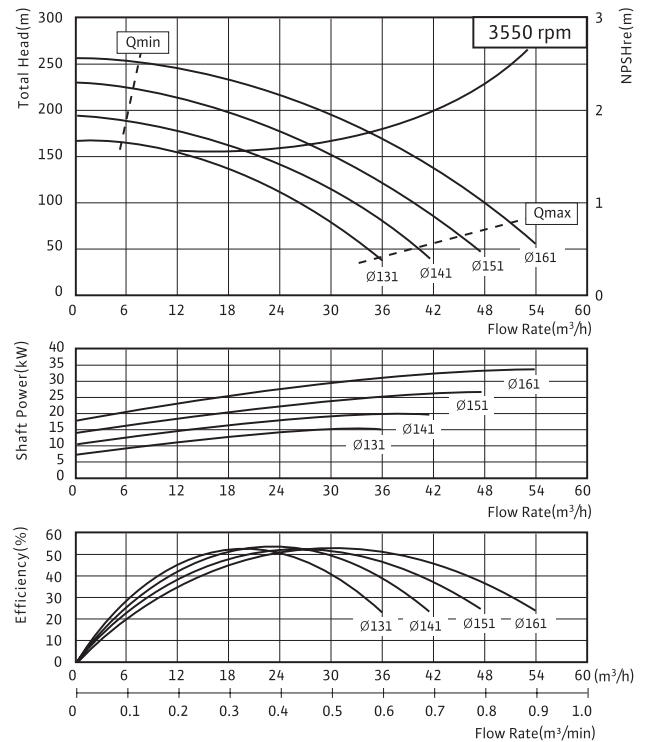
PMT - 4003



PMT - 4004



PMT - 4005



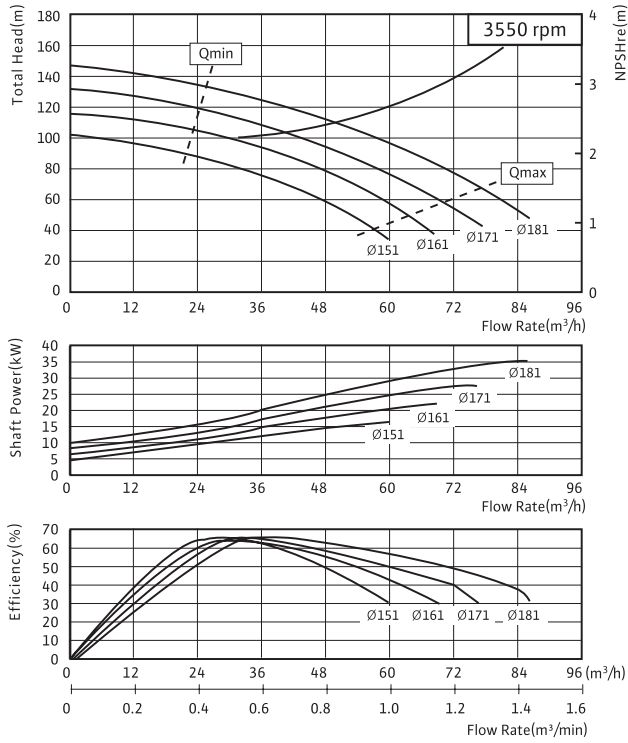
Multi-Stage Pumps

Ring Section Pumps

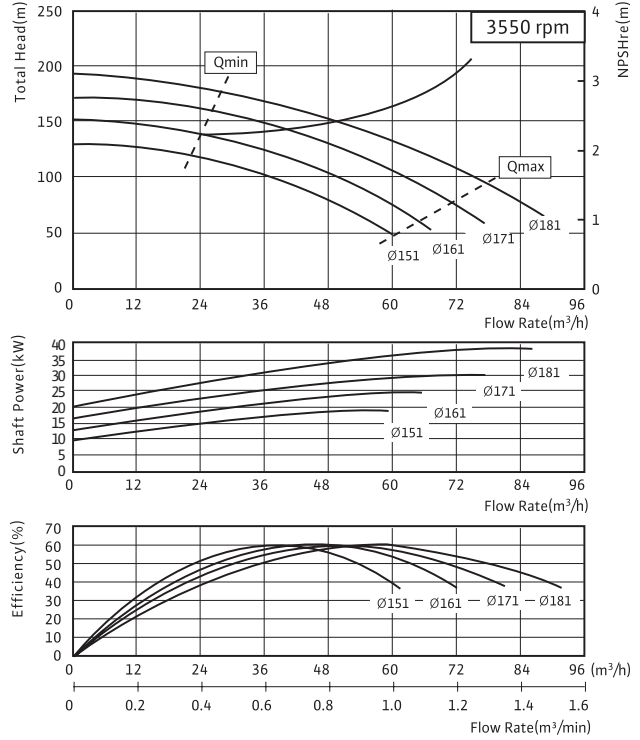
PMT- 5002 / 5003 / 5004 / 5005

성능곡선 2Pole

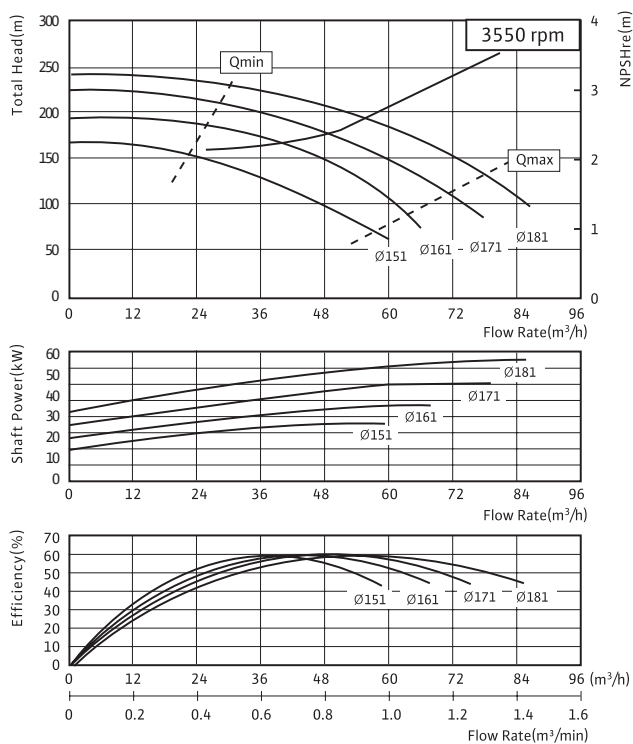
PMT - 5002



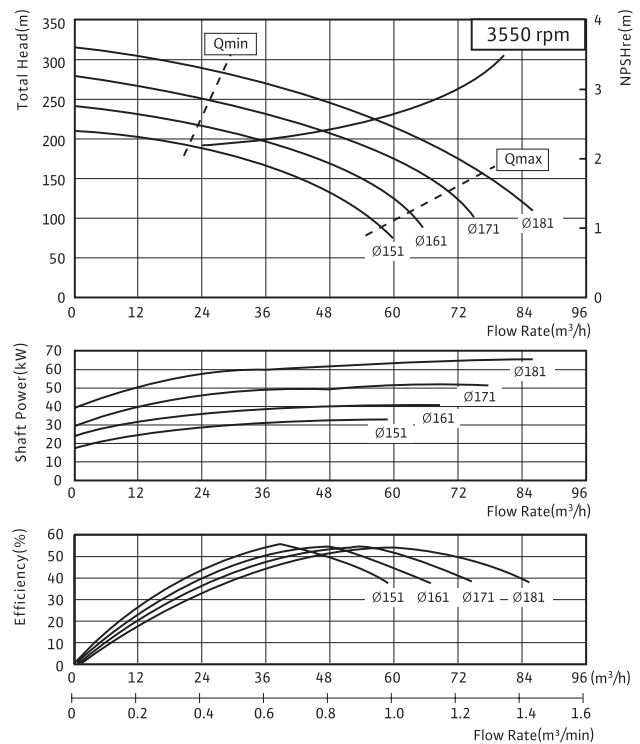
PMT - 5003



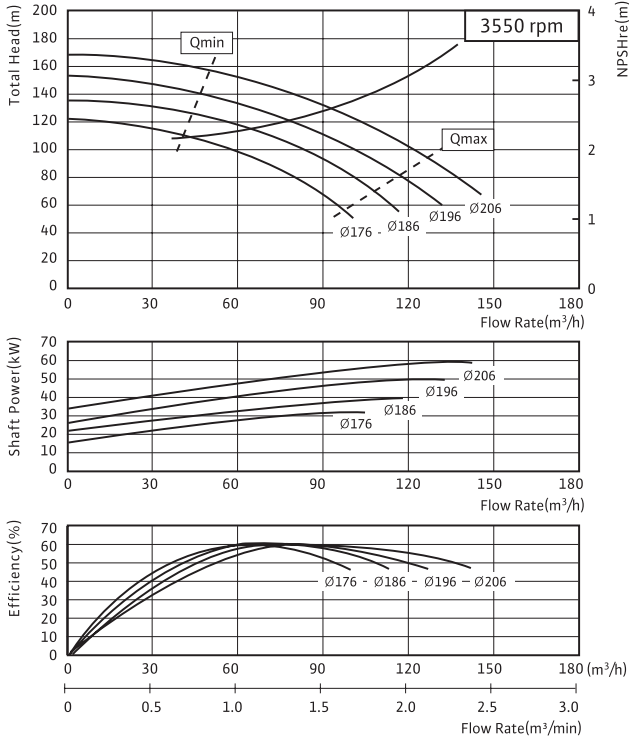
PMT - 5004



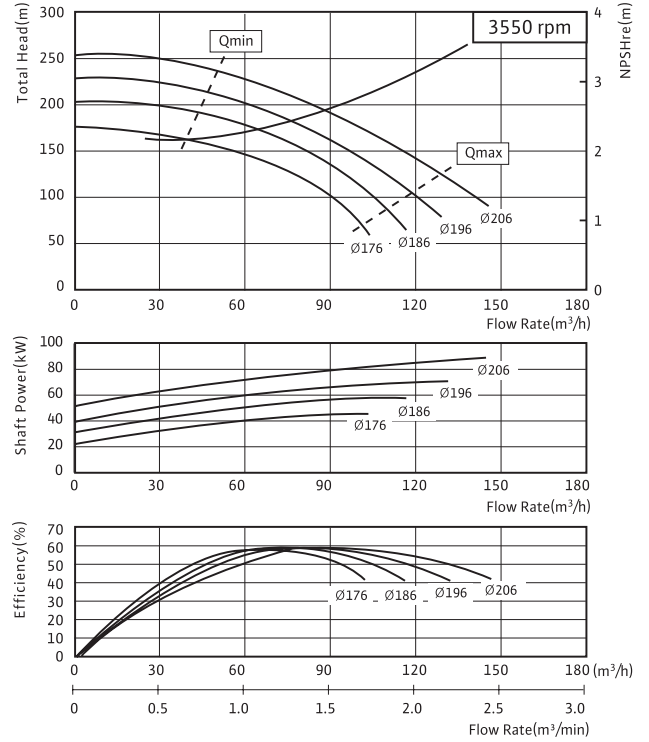
PMT - 5005



PMT - 6502



PMT - 6503

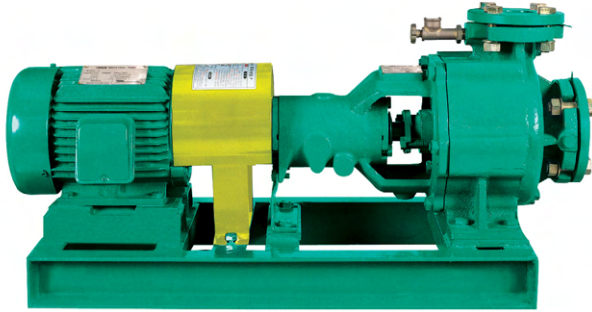


Vortex Pumps

PVH Series

PVH Series

제품소개



적용범위

- 제지 이송용, 펄프 이송용, 슬러지 이송용
- 하수처리용, 오수용

사용유체

취급액 (0~80°C의 오페수)

고온 또는 이물질이 많은 액을 취급할 경우에는 이송액의 특성(온도, 농도, 고형물의 유·무)과 사용조건에 따라 내마모성, 내식성이 현저히 변화되는 경우가 있으므로 반드시 영업 또는 공장으로 문의

구조

- 임펠러 내의 물의 흐름을 용이하도록 설계된 임펠러를 사용
- Back pull-out 구조로 유지보수가 편리
- 벨루트케이싱 채용으로 케이싱 마모로 인한 손상 감소
- 토출부가 중앙 상부에 위치하여 배관 하중에 대한 안전성과 펌프 가동시 Balance가 유지
- 임펠러에 Back vane을 형성시켜 축추력 감소

특장점

- 고형물, 섬유질이 혼합된 액체 및 가스가 함유된 액체 이송에 유리
- 강력한 흡입성능
- Vortex펌프의 이송특징인 Vortex를 유도한 Pumping 작용으로 이송 고형물의 손상 감소
- 내구성이 뛰어나고 긴 수명
- Shaft에 Sleeve가 장착되어 긴 Shaft 수명
- Fabric Gland Packing을 표준 채용하여 Packing 교체 기간 연장 및 특수액 취급이 용이

흡입속 조건

흡입 전양정 또는 압입 압력은 아래표에 따름

흡입 전양정 허용치		
액의 온도	흡입구경	흡입 전양정
0°C~40°C	50 ~ 80mm	-6m 이내
	100 ~ 125mm	-5.5m 이내

표준 흡입 압력 허용치

흡입 압력이 4kgf/cm² 이하이면서

$$\left[10 - \frac{\text{펌프 체질 전양정}}{10} \right] \text{ kgf/cm}^2 \text{ 이내}$$

또한 흡입압력이 순간적으로 변하지 않도록 하여야 함
상기조건을 벗어나는 경우에는 영업 또는 공장으로 문의

운전조건

- 기동반복이 빈번한 자동제어용으로 펌프를 사용할 경우에는 임펠러의 파손 우려가 있으므로 임펠러 재질을 BC6급 이상으로 사용
- 자동제어용으로 사용할 경우 기동반복이 시간당 12회를 넘지 않아야 함
- 수격현상 (워터해머)이 발생되지 않도록 배관을 구성

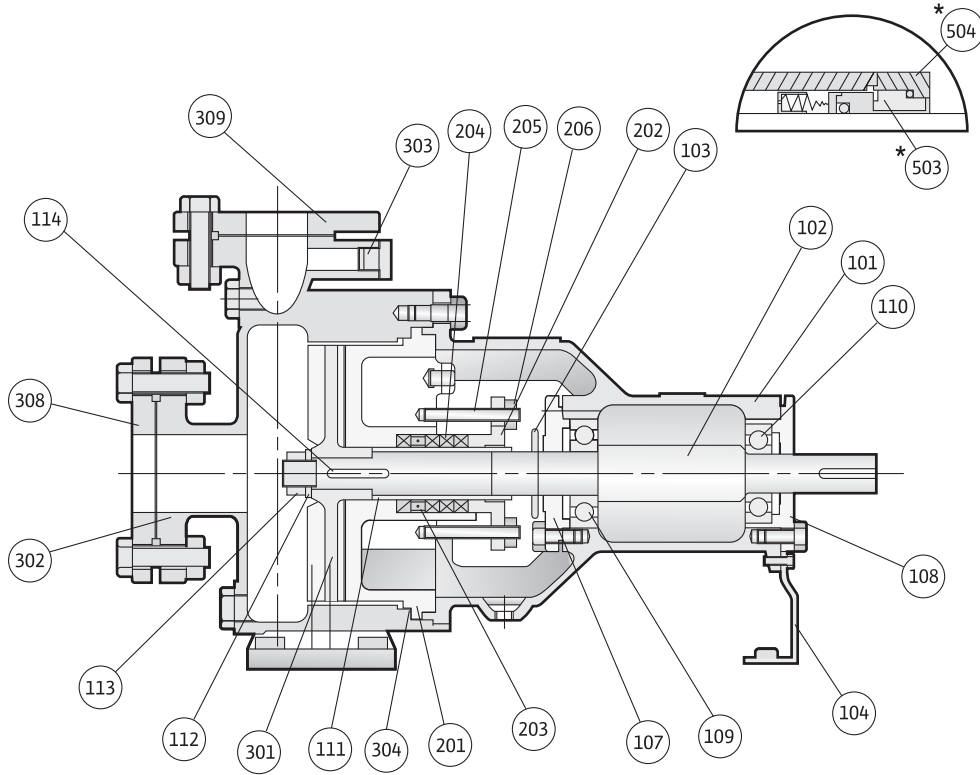
주문사항 (Option)

- 구조 변경 : Mechanical Seal
Bearing Oil 윤활구조
- 접액부 재질 변경

표준구조 DATA		
구분	형형볼텍스(PVH)	
이송액 조건	이송액	하수오물, 폐수
	슬러지 크기	토출구경의 80%
	온도	0 - 80°C
최대 허용압력		10kgf/cm ²
최소 이송유량		최고효율점의 15%
구조	IMPELLER	반 개방형 (Semi-open Type)
	STUFFING BOX	글랜드 패킹 (Gland Packing)
	BEARING	양쪽 실드 볼 베어링 (Shield Ball Bearing)
	FLANGE	10kgf/cm ² , Flat Face Type
	NOZZLE POSITION	End Suction, Top Discharge
ACCESSORIES		<ul style="list-style-type: none"> • Priming Cock • Common Base • Coupling & Coupling Guard • Drain & Air-Venting Plug

PVH Series 단면도

단면도



품번	품명	재질	수량
101	베어링 하우징 (BEARING HOUSING)	GC200	1
102	축 (SHAFT)	SM45C	1
103	물막음턱 (DEFLECTOR)	NBR	1
104	지지대 (SUPPORT)	SS400	1
107	베어링 커버 [BEARING COVER(A)]	GC200	1
108	베어링 커버 [BEARING COVER(B)]	GC200	1
109	볼 베어링 [BALL BEARING(A)]	STB2	1
110	볼 베어링 [BALL BEARING(B)]	STB2	1
111	슬리브 (SLEEVE)	STS304	1
112	임펠러 와셔 (IMPELLER WASHER)	STS304	1
113	임펠러 너트 (IMPELLER NUT)	SS400	1
114	임펠러 키 (IMPELLER KEY)	SM45C	1
201	케이싱 커버 (CASING COVER)	GC200	1

품번	품명	재질	수량
202	글랜드 (GLAND)	GC200	1
203	랜턴 링 (LANTERN RING)	NORYL/BC6	1
204	글랜드 패킹 (GLAND PACKING)	FABRIC	4
205	글랜드 볼트 (GLAND BOLT)	STS304	2
206	육각 너트 (HEX NUT)	C3602BD	2
301	임펠러 (IMPELLER)	GC200	1
302	케이싱 (CASING)	GC200	1
303	플러그 (PLUG)	SS400	1
304	케이싱 가스켓 (CASING GASKET)	NBR	1
308	상대 플랜지 (COMPANION FLANGE)	SS400	1
309	상대 플랜지 (COMPANION FLANGE)	SS400	1
* 503	미캐니컬 실 (MECHANICAL SEAL)		1
* 504	미캐니컬 실 커버 (M/SEAL COVER)	SM45C	1

*: 선택부품 (Option Parts)

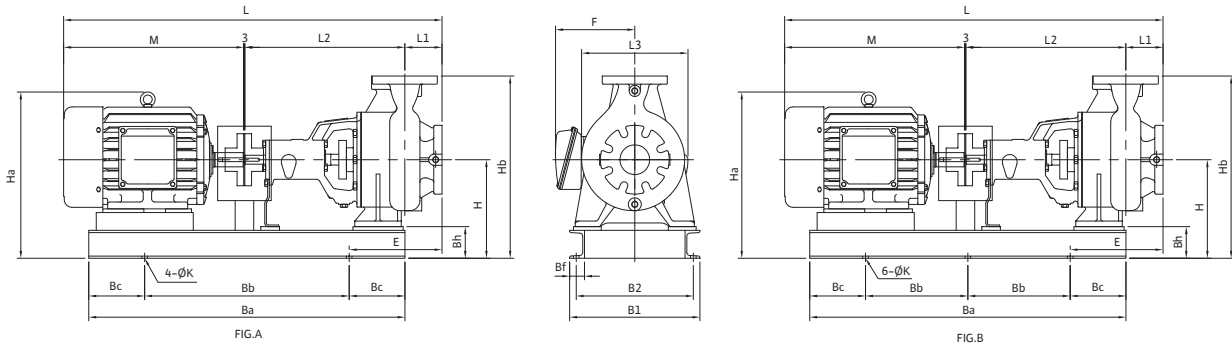
Vortex Pumps

PVH Series

PVH Series

외형도 및 치수

외형도



치수																								
MODEL	BORE(mm)		FIG	MOTOR (kW)	PUMP & MOTOR(mm)										BED ASM(mm)						WEIGHT(kg)			
	Suc.	Dis.			L2	L1	H	L3	M	Hb	Ha	E	L	F	Ba	Bb	Bc	B1	B2	Bh	Bf	K	P.B	P.B.M
PVH - 5040B	50	40	A	1.5	410	80	217	232	318	377	313	195	811	158	750	500	125	350	315	85	40	15	96	121
			A	2.2	410	80	217	232	357	377	359	220	850	171	800	500	150	290	255	85	40	15	95	129
PVH - 5040C	50	40	A	2.2	410	80	245	284	357	425	387	215	850	171	800	500	150	350	315	85	40	15	101	135
			A	3.7	410	80	245	284	370	425	405	195	863	180	750	500	125	350	315	85	40	15	99	144
PVH - 6550C	65	50	A	3.7	420	100	245	284	370	445	405	225	893	180	750	500	125	350	315	85	40	15	109	154
			A	5.5	420	100	245	284	447	445	424	240	970	220	800	500	150	350	315	85	40	15	113	181
PVH - 6550D	65	50	A	7.5	419	100	265	355	486	490	444	229	1008	220	850	550	150	350	315	85	40	15	156	238
			A	11	419	100	265	355	595	490	475	254	1117	265	950	600	175	350	315	85	40	15	158	275
PVH - 6550E	65	50	B	45	515	100	337	407	820	587	606	222.5	1438	366	1300	500	150	450	405	112	50	19	244	644
PVH - 8065C	80	65	A	5.5	430	100	265	286	447	490	444	249.5	980	220	850	550	150	350	315	85	40	15	114	182
			A	7.5	430	100	265	286	486	490	444	249.5	1019	220	850	550	150	350	315	85	40	15	114	196
PVH - 8065D	80	65	A	11	430	100	265	286	595	490	475	274.5	1128	265	950	600	175	350	315	85	40	15	116	233
			B	11	553	100	310	374	595	560	520	243	1251	265	1100	400	150	440	395	110	50	19	183	300
			B	15	553	100	310	374	639	560	520	243	1295	265	1100	400	150	440	395	110	50	19	183	323
PVH - 1080C	100	80	B	18.5	553	100	310	374	645	560	556	248	1301	297	1100	400	150	440	395	110	50	19	183	368
			B	11	557	125	290	296	595	540	500	272.5	1280	265	1100	400	150	440	395	110	50	19	156	273
			B	15	557	125	290	296	639	540	500	272.5	1324	265	1100	400	150	440	395	110	50	19	156	296
PVH - 1080D	100	80	B	18.5	568	125	310	346	645	590	556	271	1341	297	1100	400	150	440	395	110	50	19	202	387
			B	22	568	125	310	346	645	590	556	271	1341	297	1100	400	150	440	395	110	50	19	202	392
PVH - 1210D	125	100	B	22	568	140	335	345	645	615	581	264	1356	297	1150	450	125	440	395	110	50	19	197	387
			B	30	568	140	335	345	673	615	581	264	1384	297	1150	450	125	440	395	110	50	19	197	432
PVH - 1210E	125	100	B	90	566	140	400	459	910	700	660	225	1619	440	1450	550	175	540	480	155	65	23	772	1087

* Motor 관련 치수는 Motor제 조 업체에 따라 달라질 수 있음(하이젠 모터 기준 치수)

P-B: 모터제외중량 / P-B-M: 모터포함중량

* 'F' 치수가 없는 경우 - Motor Terminal Box가 상부에 위치
- 'Ha' 치수는 Motor Terminal Box 상부까지의 치수

PVH Series 선정표

1750RPM (60Hz, 4P)

Q H	3	6	12	15	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	138	156	180			
55																											
50					6550E 15 3.5	6550E 18.5 3.2												1210E 37 4.6	1210E 37 4.6	1210E 37 4.7	1210E 45 4.7	1210E 45 4.8	1210E 45 4.8				
45					6550E 15 3.5	6550E 15 3.2	6550E 18.5 3.2	6550E 18.5 3.2	6550E 18.5 3.2	6550E 22 3.3	6550E 22 3.3	6550E 30 3.3						1210E 30 4.6	1210E 37 4.6	1210E 37 4.7	1210E 37 4.7	1210E 37 4.8	1210E 37 4.8	1210E 45 5.1	1210E 45 5.3	1210E 55 5.5	
40					6550E 15 3.5	6550E 15 3.2	6550E 15 3.2	6550E 18.5 3.2	6550E 18.5 3.2	6550E 18.5 3.3	6550E 22 3.3	6550E 22 3.3						1210E 30 4.6	1210E 30 4.6	1210E 30 4.7	1210E 30 4.7	1210E 30 4.8	1210E 37 4.8	1210E 37 5.1	1210E 45 5.3	1210E 55 5.5	
38					6550E 11 3.5	6550E 15 3.2	6550E 15 3.2	6550E 15 3.2	6550E 18.5 3.2	6550E 18.5 3.3	6550E 18.5 3.3	6550E 22 3.3						1210E 30 4.6	1210E 30 4.6	1210E 30 4.7	1210E 30 4.7	1210E 30 4.8	1210E 37 4.8	1210E 37 5.1	1210E 45 5.3	1210E 45 5.5	
36						6550E 15 3.2	6550E 15 3.2	6550E 15 3.2	6550E 18.5 3.2	6550E 18.5 3.3	6550E 18.5 3.3	6550E 22 3.3						1210E 30 4.6	1210E 30 4.6	1210E 30 4.7	1210E 30 4.7	1210E 30 4.8	1210E 30 4.8	1210E 37 5.1	1210E 37 5.3	1210E 45 5.5	
34									6550E 15 3.2	6550E 18.5 3.3	6550E 18.5 3.3	6550E 18.5 3.3													1210E 37 5.3	1210E 45 5.3	
32									8065D 15 2.9	8065D 15 2.7	8065D 15 2.6															1210E 45 5.3	
30									8065D 11 2.6	8065D 15 2.6	8065D 15 2.6	8065D 15 2.4	8065D 15 2.4	8065D 15 2.4	8065D 18.5 2.4	8065D 18.5 2.4	8065D 18.5 2.4	8065D 18.5 2.4	1080D 22 2.4	1080D 22 2.4	1080D 22 2.4		1210D 30 2.4				
28					6550D 7.5 1.6	6550D 11 2.1	8065D 11 1.4	8065D 15 2.6	8065D 15 2.6	8065D 15 2.4	8065D 15 2.4	8065D 15 2.3	8065D 15 2.3	8065D 15 2.3	8065D 18.5 2.4	8065D 18.5 2.4	8065D 18.5 2.4	8065D 18.5 2.4	1080D 22 2.4	1080D 22 2.4	1080D 22 2.4	1080D 22 2.5	1080D 22 2.5	1080D 22 2.5	1210D 37 2.5	1210D 37 2.5	
26					6550D 7.5 1.6	6550D 7.5 1.5	6550D 11 1.4	6550D 11 1.3	8065D 11 2.6	8065D 11 2.4	8065D 11 2.4	8065D 15 2.4	8065D 15 2.4	8065D 15 2.4	8065D 15 2.4	8065D 18.5 2.4	8065D 18.5 2.4	8065D 18.5 2.4	8065D 18.5 2.5	1080D 22 2.4	1080D 22 2.4	1080D 22 2.5	1080D 22 2.5	1080D 22 2.5	1210D 30 2.5	1210D 30 2.5	1210D 37 2.6
24					6550D 7.5 1.6	6550D 7.5 1.5	6550D 11 1.4	6550D 11 1.3	8065D 11 2.6	8065D 11 2.5	8065D 11 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	8065D 18.5 2.5	1080D 22 2.4	1080D 22 2.4	1080D 22 2.5	1080D 22 2.5	1080D 22 2.5	1210D 30 2.5	1210D 30 2.5	1210D 37 2.6
22					6550D 7.5 1.6	6550D 7.5 1.5	6550D 7.5 1.4	6550D 7.5 1.4	8065D 11 2.6	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	1080D 22 2.4	1080D 22 2.4	1080D 22 2.5	1080D 22 2.5	1080D 22 2.5	1210D 30 2.5	1210D 30 2.5	1210D 30 2.6
20	5040C 3.7 3.9	5040C 3.7 3.9			6550D 7.5 2.0	6550D 7.5 1.6	6550D 7.5 1.4	6550D 7.5 1.4	8065D 11 2.6	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	8065D 15 2.5	1080D 18.5 2.4	1080D 18.5 2.4	1080D 18.5 2.4	1080D 18.5 2.4	1210D 22 2.4	1210D 22 2.5	1210D 30 2.5	1210D 30 2.6
18	5040C 2.2 3.5	5040C 2.2 3.2	5040C 3.7 2.6		6550C 3.7 2.0	6550C 5.5 2.0	6550C 5.5 2.1	6550C 7.5 1.4	8065C 7.5 2.6	8065C 7.5 2.7	8065C 7.5 2.9	8065C 7.5 3.0	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	8065D 11 2.5	1080C 15 2.3	1080C 18 2.4	1080D 15 2.4	1080D 15 2.5	1080D 15 2.5	1210D 22 2.5	1210D 22 2.5	1210D 30 2.6	1210D 30 2.6
16	5040C 2.2 3.5	5040C 2.2 3.2	5040C 2.2 2.4	5040C 3.7 2.4	6550C 3.7 2.2	6550C 5.5 2.1	6550C 5.5 1.9	8065C 5.5 2.5	8065C 5.5 2.7	8065C 7.5 2.9	8065C 7.5 3.0	8065C 7.5 3.1	8065C 11 3.2	8065C 11 3.2	8065C 11 3.2	8065C 11 3.2	8065C 11 3.2	1080C 15 2.3	1080C 15 2.4	1080C 15 2.5	1080C 15 2.6	1080C 15 2.7	1080C 15 2.7	1210D 18.5 2.5	1210D 22 2.5		
14	5040B 1.5 4.5	5040B 1.5 4.5	5040C 2.2 2.4	5040C 3.7 2.4	6550C 3.7 2.2	6550C 5.5 2.1	6550C 5.5 2.1	8065C 5.5 2.7	8065C 5.5 2.8	8065C 7.5 3.0	8065C 7.5 3.0	8065C 7.5 3.1	8065C 7.5 3.1	8065C 11 3.1	8065C 11 3.1	8065C 11 3.1	8065C 11 3.1	1080C 11 2.3	1080C 15 2.4	1080C 15 2.5	1080C 15 2.6	1080C 15 2.7	1080C 15 2.7	1080C 15 2.8			
12	5040B 1.5 4.5	5040B 1.5 4.0	5040B 2.2 3.4	5040C 3.7 3.4	6550C 3.7 2.2	6550C 3.7 2.1	6550C 3.7 2.1	6550C 5.5 2.1	8065C 5.5 2.7	8065C 5.5 2.8	8065C 5.5 2.9	8065C 5.5 3.1	8065C 7.5 3.1	8065C 7.5 3.1	8065C 7.5 3.1	8065C 7.5 3.1	8065C 11 3.1	1080C 11 2.3	1080C 11 2.4	1080C 11 2.5	1080C 15 2.6	1080C 15 2.7	1080C 15 2.7	1080C 15 2.8			
10	5040B 1.5 4.5	5040B 1.5 4.0	5040B 2.2 3.4	5040B 2.2 2.4	6550C 3.7 2.2	6550C 3.7 2.1	6550C 3.7 2.1										8065C 5.5 3.1	8065C 7.5 3.1	8065C 7.5 3.1	8065C 11 3.1							
8			5040B 1.5 3.4	5040B 1.5 2.4	5040B 2.2 2.7																						
6				5040B 1.5 2.4																							
	3	6	12	15	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	138	156	180			

* SELECTION TABLE 보는 방법

1. H는 양정(m)이며, Q는 유량(m³/h)
2. IMPELLER 및 CASING의 재질이 회주철이나 청동이 아닌 특수재질의 경우는 별도 문의
3. 본 선정표는 펌프의 개략 선정시에만 사용, 상세 설계시 변경 가능

4. 선정표에서 정해지지 않은 중간사양은 윗단계의 형식과 동력을 적용

5. 안의 내용은

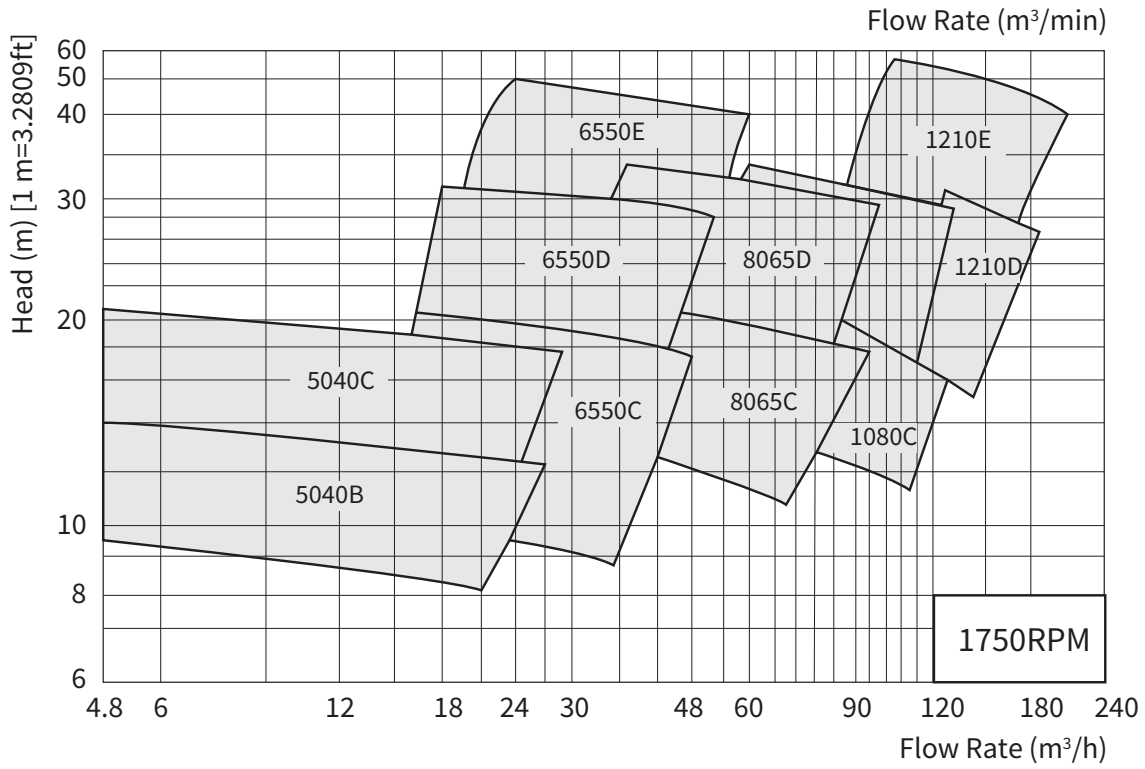
펌프 MODEL
동력(kW), NPSHre(m)

Vortex Pumps

PVH Series

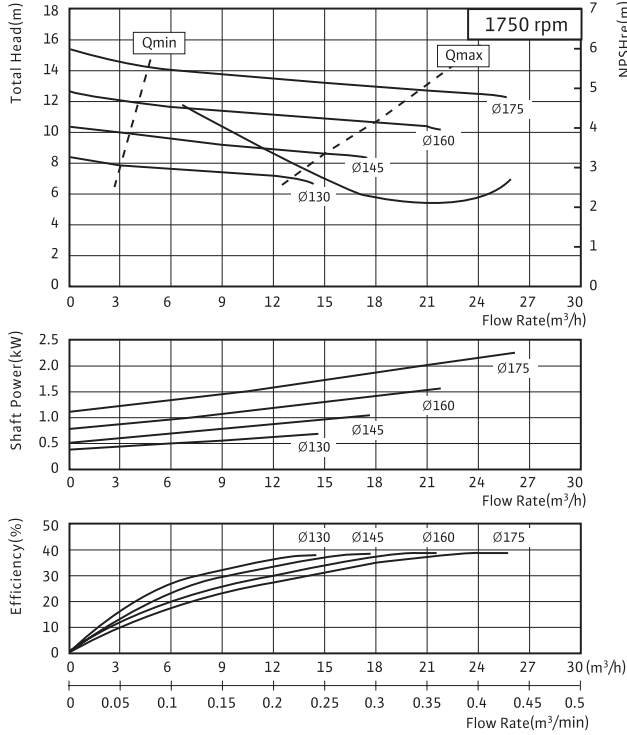
PVH Series 선정도

선정도

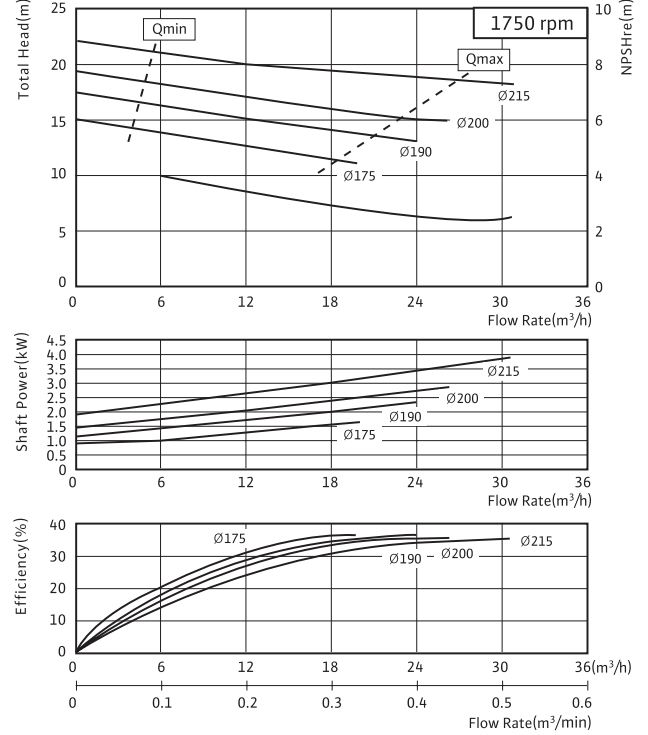


* PVH-6550E/1210E 모델은 ALL SSC기준 성능이며, GC재질의 경우 별도 문의

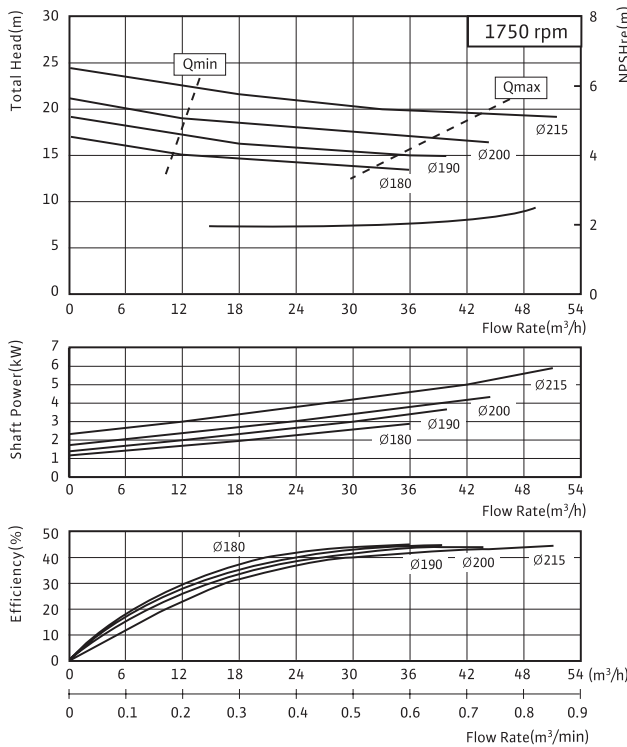
PVH - 5040B



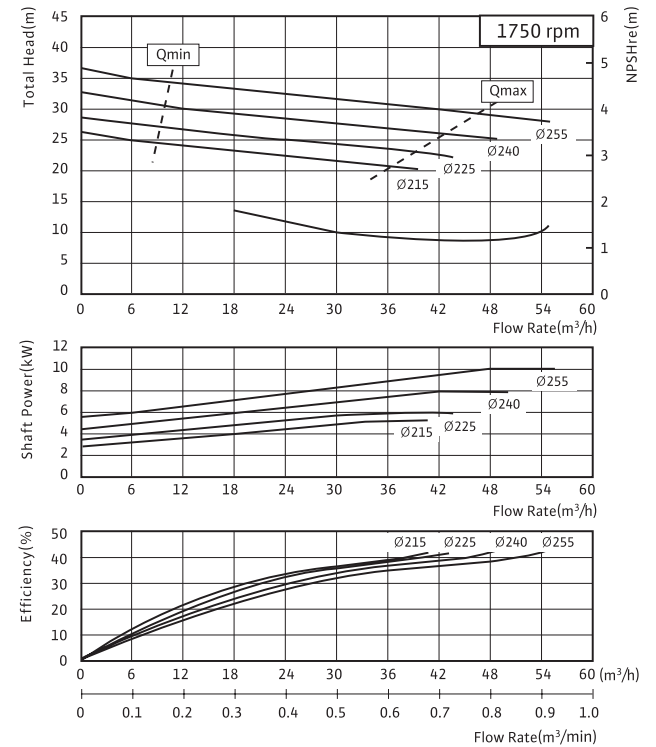
PVH - 5040C



PVH - 6550C



PVH - 6550D



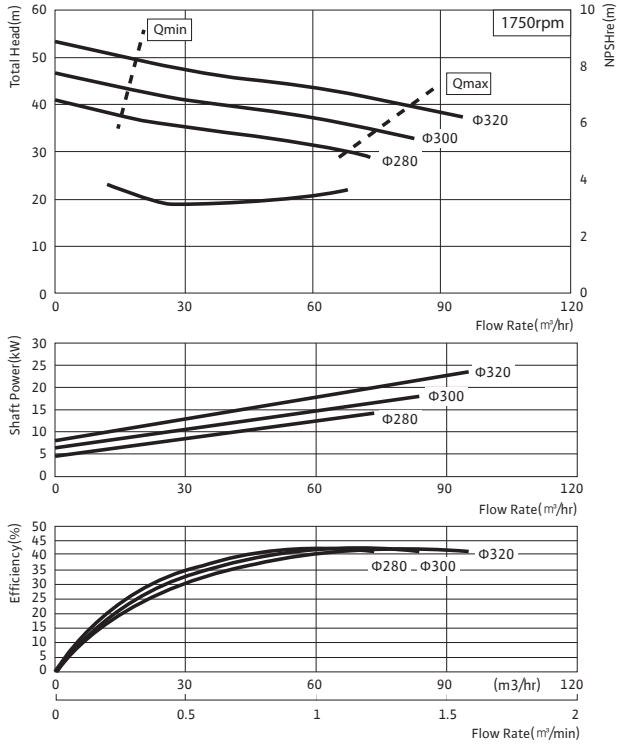
Vortex Pumps

PVH Series

PVH-6550E / 8065C / 8065D / 1080C

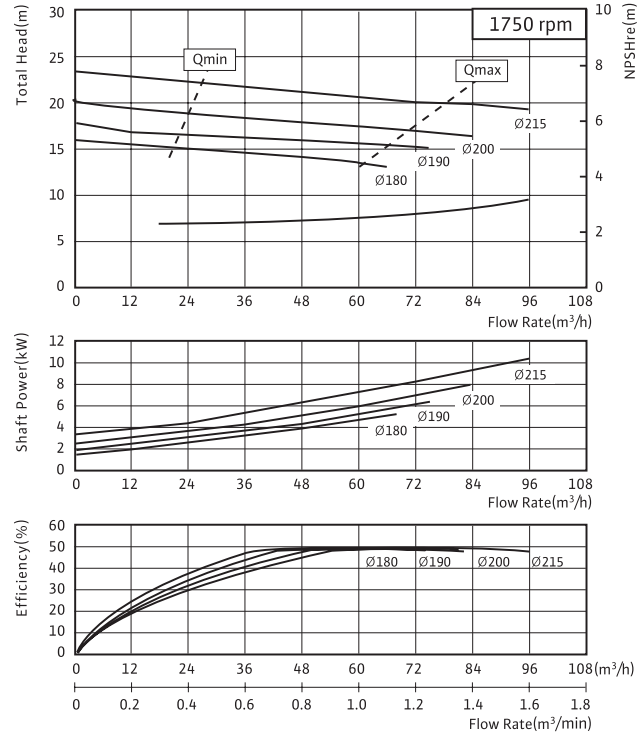
성능곡선 4pole

PVH - 6550E

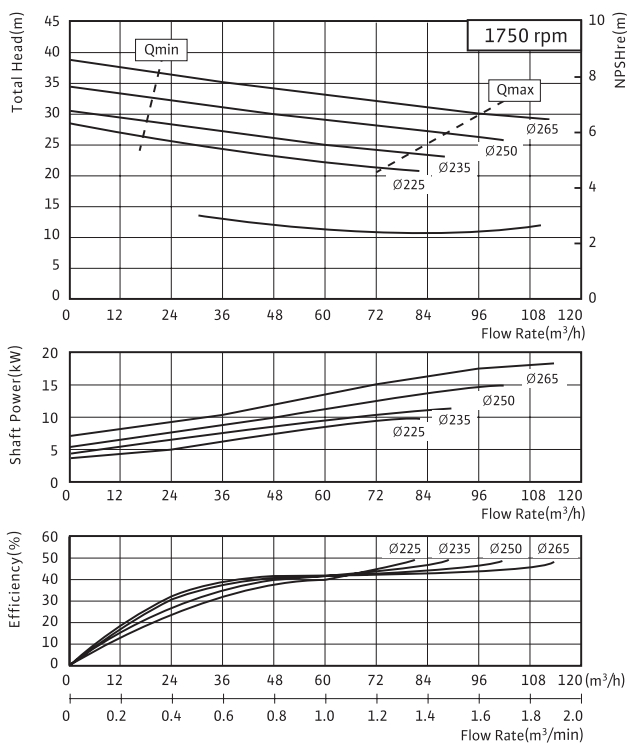


* ALL SSC 기준 성능

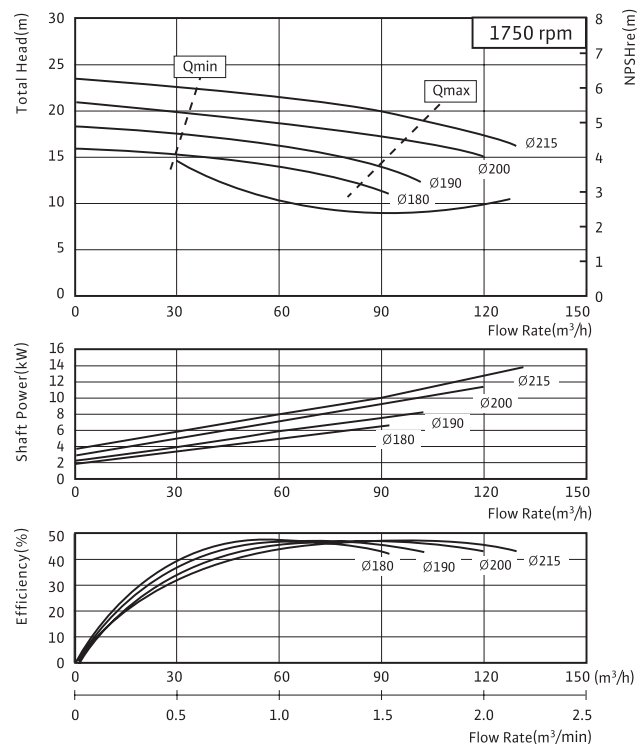
PVH - 8065C



PVH - 8065D



PVH - 1080C



Vortex Pumps

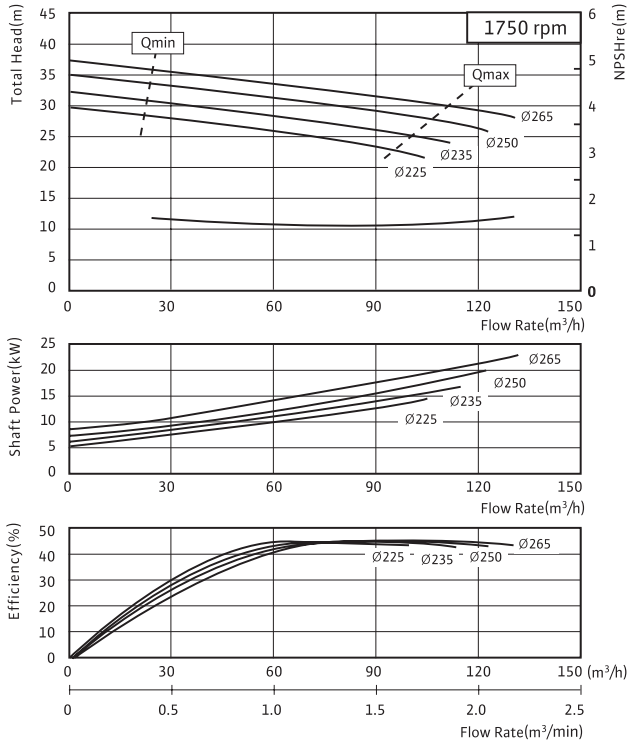
PVH Series



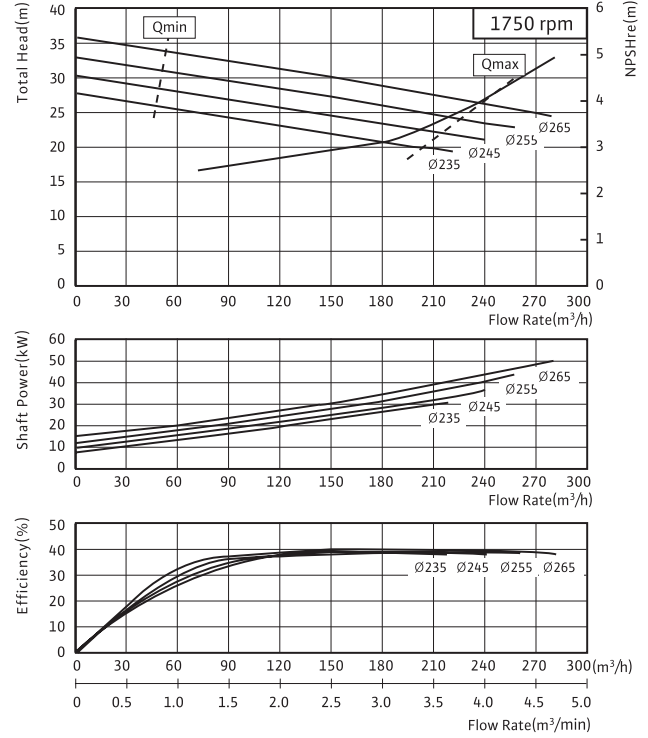
PVH- 1080D / 1210D / 1210E

성능곡선 4pole

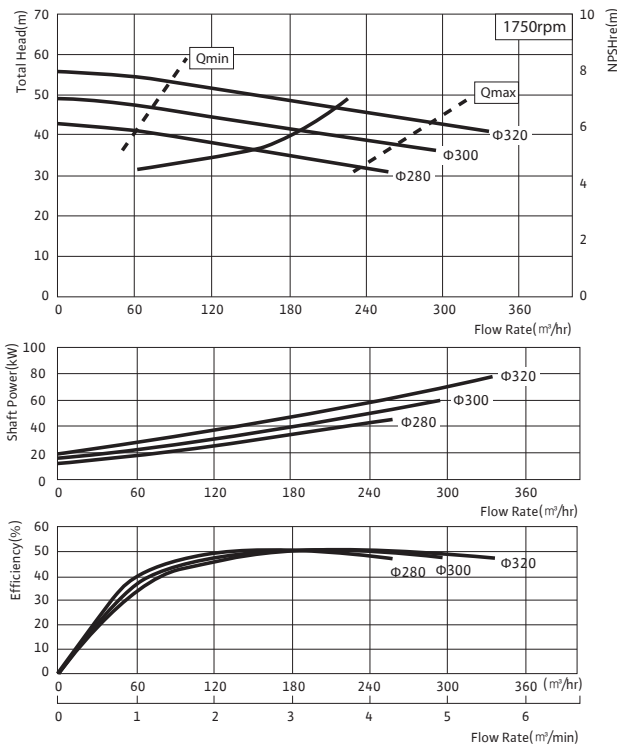
PVH - 1080D



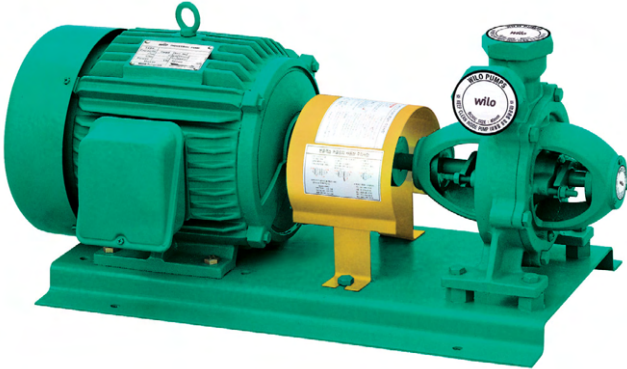
PVH - 1210D



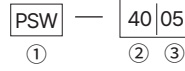
PVH - 1210E



* ALL SSC 기준 성능



모델명 부여 기준



- ① 단단 웨스코 펌프 (Single Stage Westco Pump)
- ② 흡·토출구경(40 : 40mm, 50 : 50mm)
- ③ 동력(03 : 3HP, 05 : 5HP, 08 : 7.5HP, 10 : 10HP, 15 : 15HP, 20 : 20HP)

* M/Seal Size

PSW-40 : Ø20, PSW-50 : Ø25

적용범위

- 보일러 급수용
- 고지대 및 고층건물용
- 간이 상수도용
- 소화보조용
- 스프링클러용
- 각종 기계장치용

사용유체

- 고온 또는 청수가 아닌 액을 취급할 경우에는 이송액의 특성 (온도, 농도, 고형물의 유,무)과 사용조건에 따라 내마모성, 내식성이 현저히 변화되는 경우가 있으므로, 반드시 영업 또는 공장으로 문의

구조 및 특징

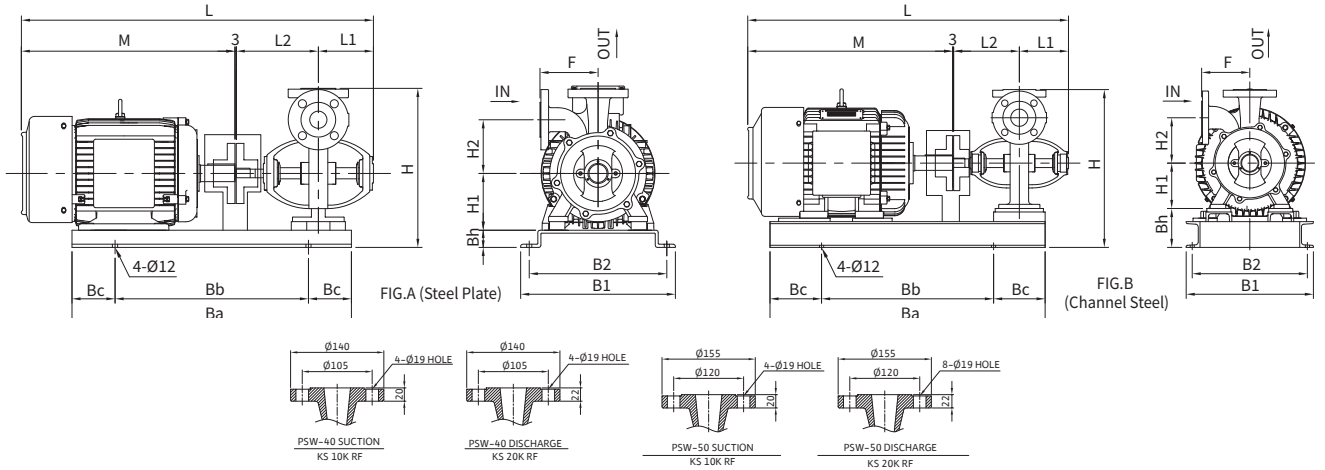
- Compact한 Design (소형, 경량)
- 내구성이 뛰어나며 긴 수명
- 임펠러의 축방향 이동을 줄여 임펠러 마모가 적음
- 스텐 재질의 연마 Shaft를 사용, 마모가 적음
- 양쪽지지 무급유 Ball Bearing 적용
- 보수점검이 용이한 구조로 설계되어 있으며 Ball Bearing에는 급유 불필요

제품사양표

MODEL	구경(mm)		동력 (HP)	유량 (m³/h)	양정 (m)
	흡입	토출			
PSW-4003	40	40	3	3.6	38
PSW-4005			5	3.6	80
PSW-4008			7.5	3.6	105
PSW-4010			10	3.6	120
PSW-5005	50	50	5	15.6	35
PSW-5008			7.5	12.6	65
PSW-5010			10	9	95
PSW-5015			15	3.6	130
PSW-5020			20	3.6	140

PSW Series 외형치수 및 선정도

외형도



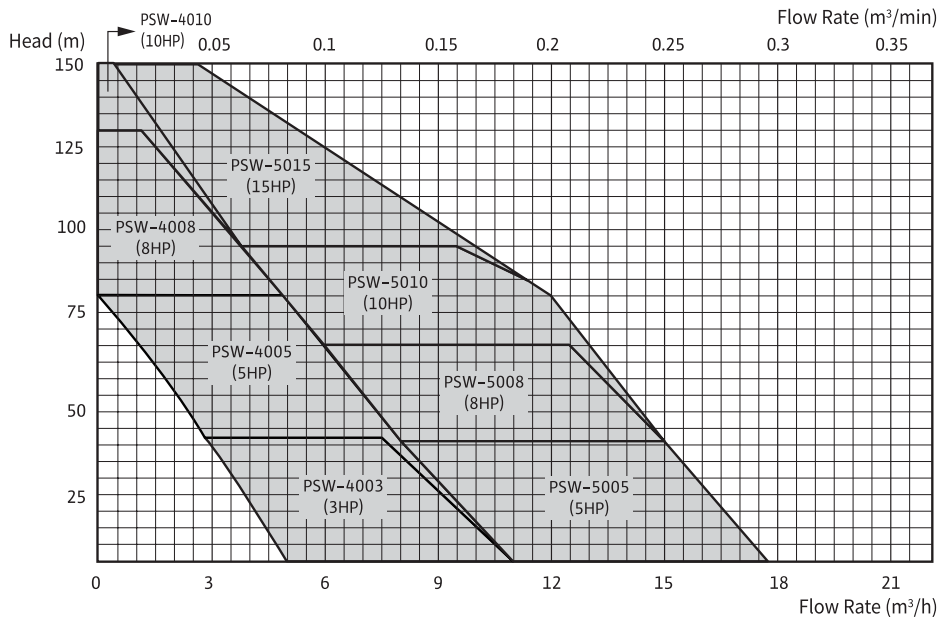
* PSW-50 Series G/Packing 적용 모델은 Socket type

Model	FIG	PUMP & MOTOR(mm)								Bed ASM(mm)						WEIGHT(kg)	
		L	L1	L2	M	H	H1	H2	F	Ba	Bb	Bc	Bh	B1	B2	P.B	P.B.M
PSW-4003	A	679	128	191	357	350	112	125	135	650	450	100	40	360	320	30	64
PSW-4005	A	692			370											30	75
PSW-4008	A	769			447	30	98										
PSW-4010	A	808			486	370	112+20	30	112								
PSW-5005	A	707	143	191	370	386	132	132	140	800	500	150	113	335	370	40	85
PSW-5008	A	784			447											40	108
PSW-5010	A	823			486	40	122										
PSW-5015	B	932			595	459	50	167									
PSW-5020	B	976	639	459	50	190											

* PSW-40 Series의 8~10HP의 경우, 높이차 보정을 위해 두께 20mm의 조정 Pad를 Pump발자리 밑에 별도 부착한 치수

(단위:mm)

선정도



*상기 성능곡선에 의해 MODEL 선정 시, 양정을 기준으로 동력을 선정

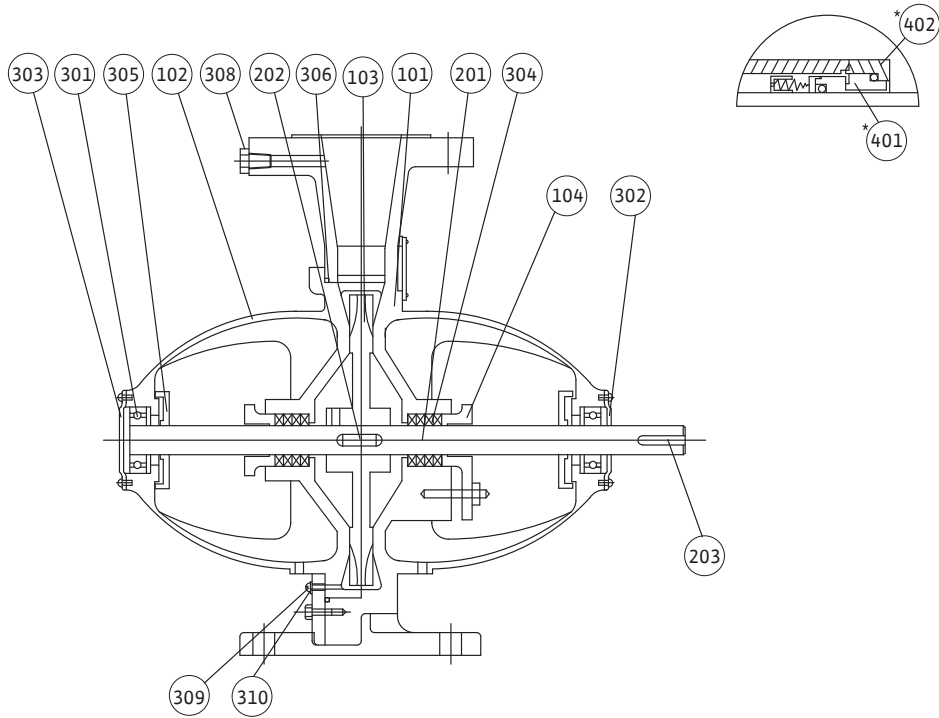
Westco Pumps

PSW Series

PSW Series

단면도

단면도



품번	품명	재질	수량
101	케이싱 (CASING)	GC200	1
102	케이싱 커버 (CASING COVER)	GC200	1
103	임펠러 (IMPELLER)	C3771BD	1
104	글랜드 (GLAND)	GC200	2
201	축 (SHAFT)	STS410	1
202	축 키 (SHAFT KEY)	SM45C	1
203	커플링 키 (COUPLING KEY)	SM45C	1
301	볼베어링 (BALL BEARING)	STB2	2
302	베어링 커버 (A)[BEARING COVER(A)]	SCP1	1

*: 선택부품 (Option Parts)

품번	품명	재질	수량
303	베어링 커버 (B)[BEARING COVER(B)]	SCP1	1
304	글랜드 패킹 (GLAND PACKING)	FABRIC	2SETS
305	물막음 턱 (DEFLECTOR)	NR	2
306	케이싱 오링 (CASING O-RING)	NBR	1
308	플러그 (PLUG)	C3602BD	2
309	배수용 나사 (DRAIN SCREW)	NSWR3	1
310	배수용 패킹 (DRAIN PACKING)	NBR	1
* 401	미캐니컬 실 (MECHANICAL SEAL)		2
* 402	미캐니컬 실 커버 (M/SEAL COVER)	SM45C	2

Monobloc Pumps

BL Series

wilo

BL Series

제품소개



적용범위

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

사용유체

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.

특장점

- 구조
백플아웃 구조로 유지보수가 용이
커플링 연결구조
Compact design으로 장비 부착용에 적합
- 임펠러
3차원 유동해석을 통한 최적설계
유체의 저항을 최소화 하여 고효율 실현
- 기계니컬 실 표준 장착

기술자료

- 운전 범위
최대 유량 : 360m³/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
기계니컬 실
- 플랜지
PN 16 (EN 1092-2)
1/8" 게이지 태핑
- 모터
IEC 표준 모터(효율 관리 기자재 운영 규정 만족)
3상, IP55, F종
- 재질(표준)
케이스 Gray Cast Iron + Cataphoresis Coating
임펠러 Gray Cast Iron + Cataphoresis Coating
샤프트 Stainless Steel
랜턴 Gray Cast Iron + Cataphoresis Coating
기계니컬 실 AQ1EGG
* 청동 임펠러 option 가능

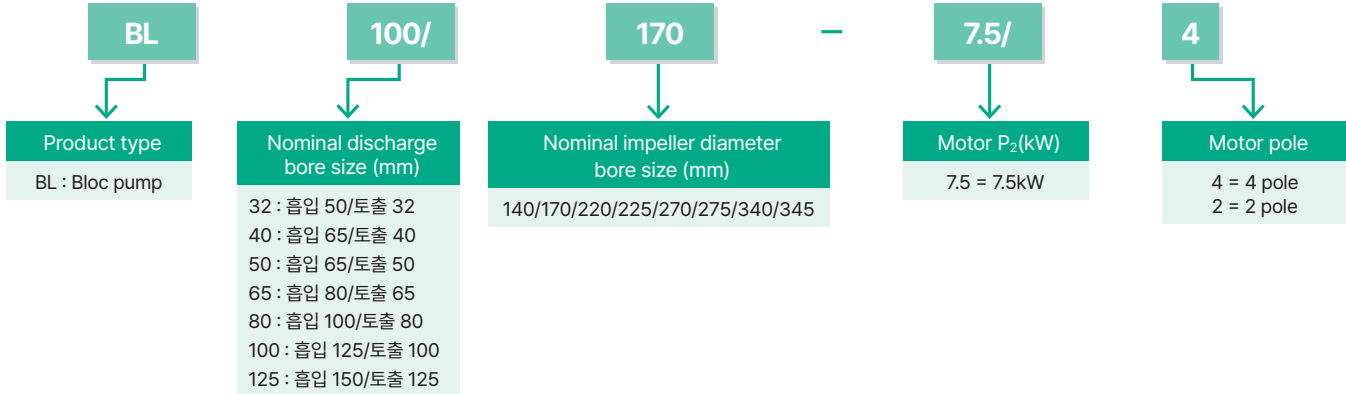
Monobloc Pumps

BL Series

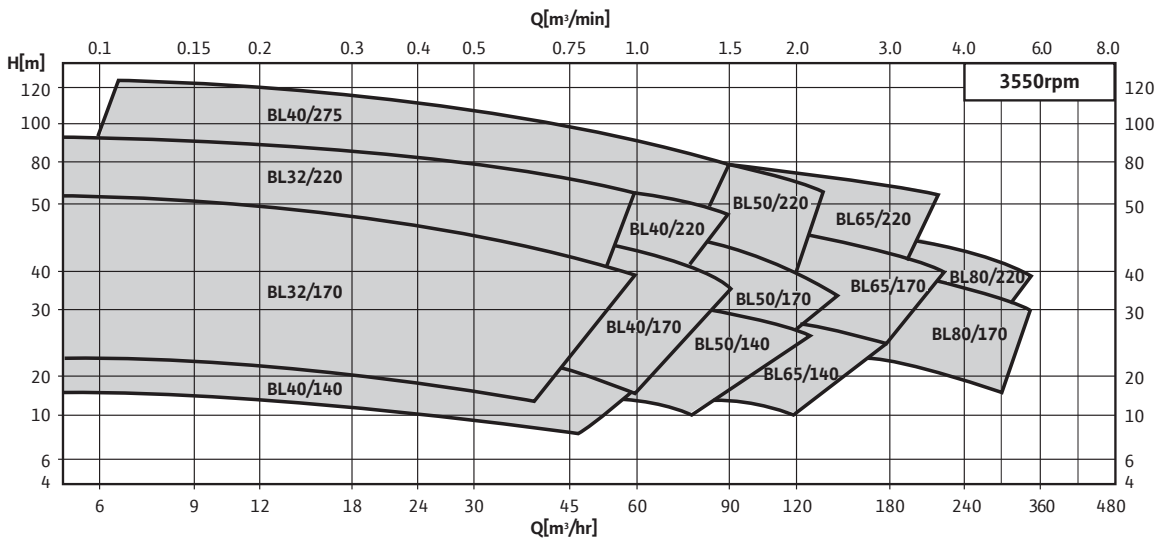
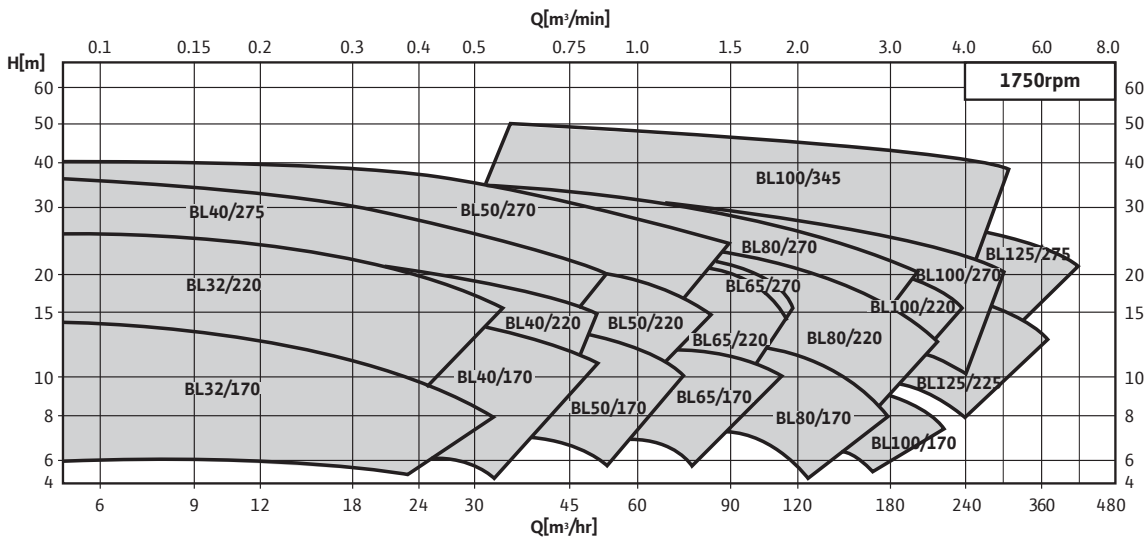
BL Series

모델명 및 선정도

모델명 부여기준



선정도



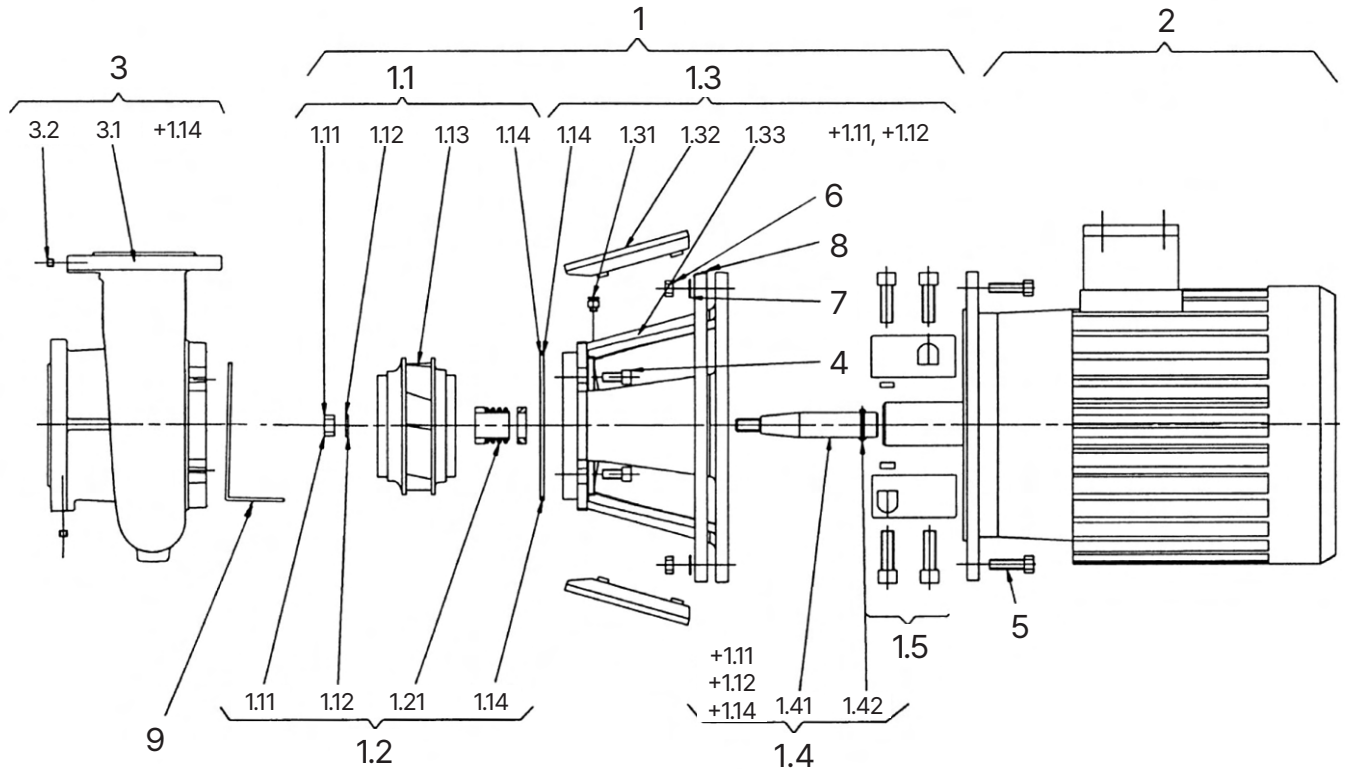
Monobloc Pumps

BL Series



BL Series 단면도

단면도



No.	PART NAME	MATERIALS
1.11	Hexagon nut	- DIN934 A2
1.12	Steel washer	- DIN125 A2
1.13	Impeller	- EN-GJL200 - Bronze
1.14	O-ring	- EPDM - Viton
1.2	Mechanical seal assembly	- Carbon/SiC-EPDM - SiC/SiC-Viton
1.31	Vent plug	- CuZn39Pb2
1.32	Coupling guard	- PA66
1.33	Lantern	- EN-GJL250

No.	PART NAME	MATERIALS
1.41	Shaft	- 1.4122 Stainless Steel
1.42	Circlip	- DIN7993 A2
1.5	Coupling assembly	
2	Motor	
3.1	Pump body	- EN-GJL250
3.2	Plug	- DIN906 8.8
4	Bolts	- DIN912 8.8
5	Bolts	- DIN912 8.8
6	Hexagon nuts	- DIN934 8
7	Steel washers	- DIN125 ST
8	Adopter ring(5.5, 7.5kW)	
9	Pump support feet(~4kW)	

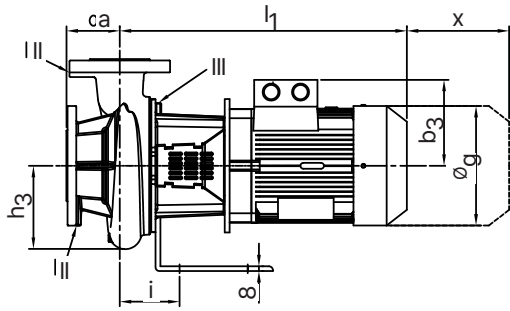
Monobloc Pumps

BL Series

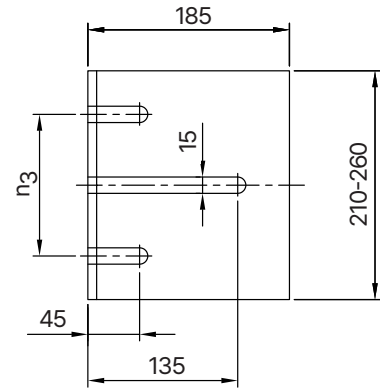
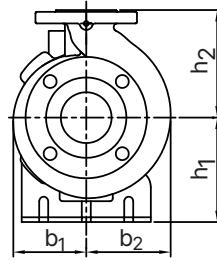
BL Series 외형도

외형도

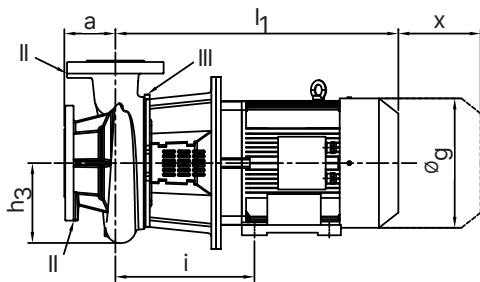
BL Series(Figure 1)



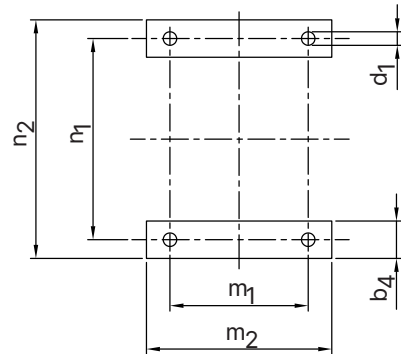
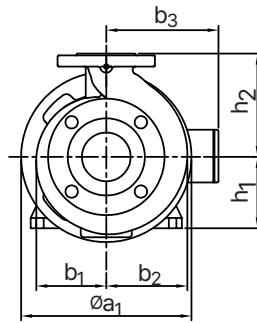
II : Gauge tapping 1/8"
III : Vent plug 1/8"



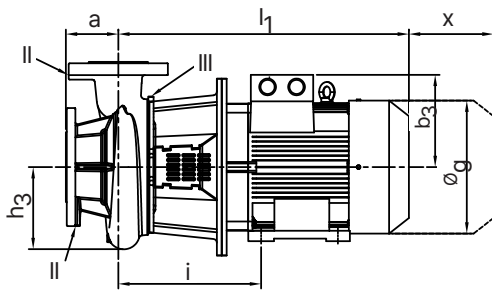
BL Series(Figure 2)



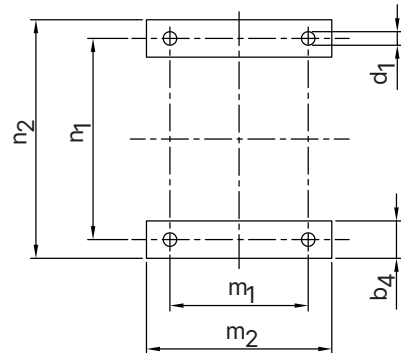
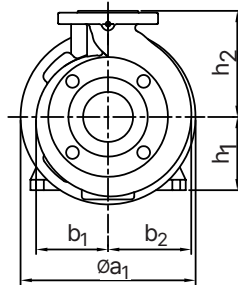
II : Gauge tapping 1/8"
III : Vent plug 1/8"



BL Series(Figure 3)



II : Gauge tapping 1/8"
III : Vent plug 1/8"



Monobloc Pumps

BL Series



BL Series 외형치수

외형치수 4pole																							
Model	DN		Fig.	a	Øa ¹	b ¹	b ²	b ³	b ⁴	d ¹	Øg	h ¹	h ²	h ³	~l ¹	i	m ¹	m ²	n ¹	n ²	n ³	x	~Net Weight (kg)
	Suc.	Dis.																					
BL32/170-0.4/4	50	32	1	80	-	113	129	141	-	-	175	160	160	122	437	110	-	-	-	-	130	95	43
BL32/170-0.55/4	50	32	1	80	-	113	129	141	-	-	175	160	160	122	437	110	-	-	-	-	130	95	43
BL32/170-0.75/4	50	32	1	80	-	113	129	141	-	-	175	160	160	122	437	110	-	-	-	-	130	95	44
BL32/170-1.1/4	50	32	1	80	-	113	129	150	-	-	193	160	160	122	505	110	-	-	-	-	130	95	49
BL32/170-1.5/4	50	32	1	80	-	113	129	150	-	-	193	160	160	122	505	110	-	-	-	-	130	95	51
BL32/220-1.1/4	50	32	1	80	-	145	149	150	-	-	193	180	180	145	502	117	-	-	-	-	180	100	55
BL32/220-1.5/4	50	32	1	80	-	145	149	150	-	-	193	180	180	145	502	117	-	-	-	-	180	100	57
BL32/220-2.2/4	50	32	1	80	-	145	149	203	-	-	236	180	180	145	569	117	-	-	-	-	180	100	74
BL32/220-3/4	50	32	1	80	-	145	149	203	-	-	236	180	180	145	569	117	-	-	-	-	180	100	74
BL40/170-0.75/4	65	40	1	80	-	120	135	141	-	-	175	160	160	132	439	114	-	-	-	-	130	100	46
BL40/170-1.1/4	65	40	1	80	-	120	135	150	-	-	193	160	160	132	507	114	-	-	-	-	130	100	51
BL40/170-1.5/4	65	40	1	80	-	120	135	150	-	-	193	160	160	132	507	114	-	-	-	-	130	100	53
BL40/170-2.2/4	65	40	1	80	-	120	135	203	-	-	236	160	160	132	575	114	-	-	-	-	130	100	70
BL40/220-1.5/4	65	40	1	100	-	145	151	150	-	-	193	180	180	145	509	124	-	-	-	-	180	100	61
BL40/220-2.2/4	65	40	1	100	-	145	151	203	-	-	236	180	180	145	576	124	-	-	-	-	180	100	78
BL40/220-3/4	65	40	1	100	-	145	151	203	-	-	236	180	180	145	576	124	-	-	-	-	180	100	78
BL40/220-3.7/4	65	40	1	100	-	145	151	203	-	-	236	180	180	145	576	124	-	-	-	-	180	100	78
BL40/275-3/4	65	40	1	100	-	174	174	203	-	-	236	200	225	174	582	126	-	-	-	-	180	110	85
BL40/275-3.7/4	65	40	1	100	-	174	174	203	-	-	236	200	225	174	582	126	-	-	-	-	180	110	85
BL40/275-4/4	65	40	1	100	-	174	174	203	-	-	236	200	225	174	582	126	-	-	-	-	180	110	87
BL40/275-5.5/4	65	40	2	100	300	174	174	221	45	12	274	132	225	174	613	334	140	175	216	250	-	110	88
BL40/275-7.5/4	65	40	2	100	300	174	174	221	45	12	274	132	225	174	652	335	178	215	216	250	-	110	93
BL50/170-1.1/4	65	50	1	100	-	127	147	150	-	-	193	160	180	152	514	122	-	-	-	-	130	120	54
BL50/170-1.5/4	65	50	1	100	-	127	147	203	-	-	236	160	180	152	514	122	-	-	-	-	130	120	56
BL50/170-2.2/4	65	50	1	100	-	127	147	203	-	-	236	160	180	152	582	122	-	-	-	-	130	120	72
BL50/170-3/4	65	50	1	100	-	127	147	203	-	-	236	160	180	152	582	122	-	-	-	-	130	120	72
BL50/220-2.2/4	65	50	1	100	-	153	172	203	-	-	236	180	200	159	577	124	-	-	-	-	180	120	72
BL50/220-3/4	65	50	1	100	-	153	172	203	-	-	236	180	200	159	577	124	-	-	-	-	180	120	72
BL50/220-3.7/4	65	50	1	100	-	153	172	203	-	-	236	180	200	159	577	124	-	-	-	-	180	120	72
BL50/220-4/4	65	50	1	100	-	153	172	203	-	-	236	180	200	159	577	124	-	-	-	-	180	120	74
BL50/220-5.5/4	65	50	2	100	300	153	172	221	45	12	274	132	200	159	608	329	140	175	216	250	-	120	110
BL50/220-7.5/4	65	50	2	100	300	153	172	221	45	12	274	132	200	159	647	330	178	215	216	250	-	120	125
BL50/270-4/4	65	50	1	100	-	174	186	203	-	-	236	132	225	179	583	131	-	-	-	-	180	110	89
BL50/270-5.5/4	65	50	2	100	300	174	186	221	45	12	274	132	225	179	614	335	140	175	216	250	-	110	125
BL50/270-7.5/4	65	50	2	100	300	174	186	221	45	12	274	132	225	179	653	336	178	215	216	250	-	110	140
BL50/270-11/4	65	50	3	100	350	174	186	304	50	15	317	160	225	179	739	362	210	250	254	300	-	110	197
BL50/270-15/4	65	50	3	100	350	174	186	304	50	15	317	160	225	179	783	362	254	300	254	300	-	110	217
BL65/170-1.5/4	80	65	1	100	-	136	162	150	-	-	193	160	200	155	514	130	-	-	-	-	130	120	63
BL65/170-2.2/4	80	65	1	100	-	136	162	203	-	-	236	160	200	155	582	130	-	-	-	-	130	120	76
BL65/170-3/4	80	65	1	100	-	136	162	203	-	-	236	160	200	155	582	130	-	-	-	-	130	120	76
BL65/170-3.7/4	80	65	1	100	-	136	162	203	-	-	236	160	200	155	582	130	-	-	-	-	130	120	76
BL65/170-4/4	80	65	1	100	-	136	162	203	-	-	236	160	200	155	582	130	-	-	-	-	130	120	76
BL65/220-3/4	80	65	1	100	-	156	181	203	-	-	236	200	225	170	593	139	-	-	-	-	180	120	85
BL65/220-3.7/4	80	65	1	100	-	156	181	203	-	-	236	200	225	170	593	139	-	-	-	-	180	120	85
BL65/220-4/4	80	65	1	100	-	156	181	203	-	-	236	200	225	170	593	139	-	-	-	-	180	120	87
BL65/220-5.5/4	80	65	2	100	300	156	181	221	45	12	274	132	225	170	624	345	140	175	216	250	-	120	123
BL65/220-7.5/4	80	65	2	100	300	156	181	221	45	12	274	132	225	170	663	346	178	215	216	250	-	120	138
BL65/275-5.5/4	80	65	2	100	300	184	203	221	45	12	274	132	250	196	622	343	140	175	216	250	-	115	146
BL65/275-7.5/4	80	65	2	100	300	184	203	221	45	12	274	132	250	196	661	344	178	215	216	250	-	115	161
BL80/170-3/4	100	80	1	125	-	160	196	203	-	-	236	160	225	178	597	137	-	-	-	-	130	135	85
BL80/170-3.7/4	100	80	1	125	-	160	196	203	-	-	236	160	225	178	597	137	-	-	-	-	130	135	85
BL80/170-4/4	100	80	1	125	-	160	196	203	-	-	236	160	225	178	597	137	-	-	-	-	130	135	85
BL80/170-5.5/4	100	80	2	125	300	160	196	221	45	12	274	132	225	178	617	338	140	175	216	250	-	135	123
BL80/170-7.5/4	100	80	2	125	300	160	196	221	45	12	274	132	225	178	656	339	178	215	216	250	-	135	132

Monobloc Pumps

BL Series

BL Series

외형치수

외형치수 4pole																							
Model	DN		Fig.	a	Øa ¹	b ¹	b ²	b ³	b ⁴	d ¹	Øg	h ¹	h ²	h ³	~l ¹	i	m ¹	m ²	n ¹	n ²	n ³	x	~Net Weight (kg)
	Suc.	Dis.																					
BL80/220-3.7/4	100	80	1	125	-	170	197	203	-	-	236	200	250	178	598	143	-	-	-	-	180	120	98
BL80/220-4/4	100	80	1	125	-	170	197	203	-	-	236	200	250	178	598	143	-	-	-	-	180	120	100
BL80/220-5.5/4	100	80	2	125	300	170	197	221	45	12	274	132	250	178	629	350	140	175	216	250	-	120	136
BL80/220-7.5/4	100	80	2	125	300	170	197	221	45	12	274	132	250	178	668	351	178	215	216	250	-	120	151
BL80/220-11/4	100	80	3	125	350	170	197	304	50	15	317	160	250	178	795	418	210	250	254	300	-	120	208
BL80/220-15/4	100	80	3	125	350	170	197	304	50	15	317	160	250	178	839	418	210	250	254	300	-	120	228
BL80/270-11/4	100	80	3	125	350	192	218	304	50	15	317	160	280	199	783	406	210	250	254	300	-	120	227
BL80/270-15/4	100	80	3	125	350	192	218	304	50	15	317	160	280	199	827	406	210	250	254	300	-	120	248
BL80/270-18.5/4	100	80	3	125	350	192	218	326	61	15	365	180	280	199	821	407	241	280	279	321	-	120	273
BL80/270-22/4	100	80	3	125	350	192	218	326	61	15	365	180	280	199	821	407	241	280	279	321	-	120	288
BL100/170-3.7/4	125	100	1	125	-	167	206	203	-	-	236	189	260	189	606	147	-	-	-	-	130	120	97
BL100/170-4/4	125	100	1	125	-	167	206	203	-	-	236	189	260	189	606	147	-	-	-	-	130	120	99
BL100/170-5.5/4	125	100	2	125	300	167	206	221	45	12	274	132	260	189	626	347	140	175	216	250	-	120	135
BL100/170-7.5/4	125	100	2	125	300	167	206	221	45	12	274	132	260	189	665	348	178	215	216	250	-	120	150
BL100/220-5.5/4	125	100	2	125	300	176	211	221	45	12	274	132	280	196	639	360	140	175	216	250	-	120	145
BL100/220-7.5/4	125	100	2	125	300	176	211	221	45	12	274	132	280	196	678	361	178	215	216	250	-	120	160
BL100/220-11/4	125	100	3	125	350	176	211	304	50	15	317	160	280	196	804	427	210	250	254	300	-	120	217
BL100/220-15/4	125	100	3	125	350	176	211	304	50	15	317	160	280	196	848	427	210	250	254	300	-	120	237
BL100/270-15/4	125	100	3	140	350	200	232	304	50	15	317	160	280	222	841	420	210	250	254	300	-	130	262
BL100/270-18.5/4	125	100	3	140	350	200	232	326	61	15	365	180	280	222	835	421	241	280	279	321	-	130	287
BL100/270-22/4	125	100	3	140	350	200	232	326	61	15	365	180	280	222	852	438	241	280	279	321	-	130	302
BL100/270-30/4	125	100	3	140	400	200	232	405	61	15	406	200	280	222	1017	427	279	318	279	321	-	130	416
BL100/345-22/4	125	100	3	140	350	263	297	326	61	15	365	180	315	250	870	456	241	280	279	321	-	140	349
BL100/345-30/4	125	100	3	140	400	263	297	405	61	15	406	200	315	250	1035	445	279	318	279	321	-	140	434
BL100/345-37/4	125	100	3	140	450	263	297	405	83	19	406	200	315	250	1119	521	305	365	318	400	-	140	509
BL100/345-45/4	125	100	3	140	450	263	297	405	82	19	406	200	315	250	1149	510	305	365	318	400	-	140	519
BL100/345-55/4	125	100	3	140	450	263	297	434	79	19	454	225	315	250	1153	540	311	375	356	432	-	140	604
BL125/225-7.5/4	150	125	2	140	300	207	254	221	45	12	274	132	315	232	690	373	178	215	216	250	-	140	197
BL125/225-11/4	150	125	3	140	350	207	254	304	50	15	317	160	315	232	817	440	210	250	254	300	-	140	259
BL125/225-15/4	150	125	3	140	350	207	254	304	50	15	317	160	315	232	861	440	210	250	254	300	-	140	280
BL125/225-18.5/4	150	125	3	140	350	207	254	326	61	15	365	180	315	232	855	441	241	280	279	321	-	140	305
BL125/225-22/4	150	125	3	140	350	207	254	326	61	15	365	180	315	232	855	441	241	280	279	321	-	140	320
BL125/275-18.5/4	150	125	3	140	350	252	294	326	61	15	365	180	355	250	876	462	241	280	279	321	-	140	331
BL125/275-22/4	150	125	3	140	350	252	294	326	61	15	365	180	355	250	876	462	241	280	279	321	-	140	346
BL125/275-30/4	150	125	3	140	350	252	294	405	61	15	406	200	355	250	1070	480	279	318	279	321	-	140	476
BL125/275-37/4	150	125	3	140	450	252	294	405	83	19	406	200	355	250	1094	496	305	365	318	400	-	140	496

Monobloc Pumps

BL Series



BL Series 외형치수

외형치수 2pole																								
Model	DN		Fig.	a	Øa ¹	b ¹	b ²	b ³	b ⁴	d ¹	Øg	h ¹	h ²	h ³	~l ¹	i	m ¹	m ²	n ¹	n ²	n ³	x	~Net Weight (kg)	
	Suc.	Dis.																						(mm)
BL32/170-3/2	50	32	1	80	-	113	129	203	-	-	236	160	160	122	572	110	-	-	-	-	130	95	63	
BL32/170-3.7/2	50	32	1	80	-	113	129	203	-	-	236	160	160	122	572	110	-	-	-	-	130	95	66	
BL32/170-4/2	50	32	1	80	-	113	129	203	-	-	236	160	160	122	572	110	-	-	-	-	130	95	67	
BL32/170-5.5/2	50	32	2	80	300	113	129	221	45	12	274	132	160	122	593	314	140	175	216	250	-	95	95	
BL32/170-7.5/2	50	32	2	80	300	113	129	221	45	12	274	132	160	122	593	314	140	175	216	250	-	95	100	
BL32/170-11/2	50	32	3	80	350	113	129	304	50	15	317	160	160	122	767	390	210	250	254	300	-	95	169	
BL32/220-7.5/2	50	32	2	80	300	145	149	221	45	12	274	132	180	145	600	321	140	175	216	250	-	100	108	
BL32/220-11/2	50	32	3	80	350	145	149	304	50	15	317	160	180	145	766	389	210	250	254	300	-	100	175	
BL32/220-15/2	50	32	3	80	350	145	149	304	50	15	317	160	180	145	766	389	210	250	254	300	-	100	175	
BL32/220-18.5/2	50	32	3	80	350	145	149	304	50	15	317	160	180	145	810	389	254	300	254	300	-	100	195	
BL32/220-22/2	50	32	3	80	350	145	149	326	61	15	365	180	180	145	804	390	241	280	279	321	-	100	225	
BL40/140-2.2/2	65	40	1	80	-	101	119	150	-	-	193	160	140	111	503	114	-	-	-	-	130	100	47	
BL40/140-3/2	65	40	1	80	-	101	119	203	-	-	236	160	140	111	571	114	-	-	-	-	130	100	60	
BL40/140-3.7/2	65	40	1	80	-	101	119	203	-	-	236	160	140	111	571	114	-	-	-	-	130	100	62	
BL40/140-4/2	65	40	1	80	-	101	119	203	-	-	236	160	140	111	571	114	-	-	-	-	130	100	62	
BL40/170-5.5/2	65	40	2	80	300	120	135	221	45	12	274	132	160	132	595	316	140	175	216	250	-	100	111	
BL40/170-7.5/2	65	40	2	80	300	120	135	221	45	12	274	132	160	132	595	316	140	175	216	250	-	100	118	
BL40/170-11/2	65	40	3	80	350	120	135	304	50	15	317	160	160	132	768	391	210	250	254	300	-	100	185	
BL40/170-15/2	65	40	3	80	350	120	135	304	50	15	317	160	160	132	768	391	210	250	254	300	-	100	185	
BL40/220-7.5/2	65	40	2	100	300	145	151	221	45	12	274	132	180	145	607	328	140	175	216	250	-	100	133	
BL40/220-11/2	65	40	3	100	350	145	151	304	50	15	317	160	180	145	773	396	210	250	254	300	-	100	200	
BL40/220-15/2	65	40	3	100	350	145	151	304	50	15	317	160	180	145	773	396	210	250	254	300	-	100	200	
BL40/220-18.5/2	65	40	3	100	350	145	151	304	50	15	317	160	180	145	817	396	254	300	254	300	-	100	220	
BL40/220-22/2	65	40	3	100	350	145	151	326	61	15	365	180	180	145	811	397	241	280	279	321	-	100	250	
BL40/275-30/2	65	40	3	100	400	174	174	405	61	15	406	200	225	174	982	408	279	318	279	321	-	110	335	
BL40/275-37/2	65	40	3	100	400	174	174	405	83	19	406	200	225	174	982	425	305	365	318	400	-	110	370	
BL40/275-45/2	65	40	3	100	400	174	174	405	82	19	406	200	225	174	1112	414	305	365	318	400	-	110	410	
BL50/140-4/2	65	50	1	100	-	111	133	203	-	-	236	160	160	124	577	121	-	-	-	-	130	110	67	
BL50/140-5.5/2	65	50	2	100	300	111	133	221	45	12	274	132	160	124	603	324	140	175	216	250	-	110	94	
BL50/140-7.5/2	65	50	2	100	300	111	133	221	45	12	274	132	160	124	603	324	140	175	216	250	-	110	101	
BL50/140-11/2	65	50	3	100	350	111	133	304	50	15	317	160	160	124	777	400	210	250	254	300	-	110	168	
BL50/140-15/2	65	50	3	100	350	111	133	304	50	15	317	160	160	124	777	400	210	250	254	300	-	110	168	
BL50/140-18.5/2	65	50	3	100	350	111	133	304	50	15	317	160	160	124	821	400	254	300	254	300	-	110	188	
BL50/170-7.5/2	65	50	2	100	300	127	147	221	45	12	274	132	180	152	602	323	140	175	216	250	-	120	115	
BL50/170-11/2	65	50	3	100	350	127	147	304	50	15	317	160	180	152	776	399	210	250	254	300	-	120	182	
BL50/170-15/2	65	50	3	100	350	127	147	304	50	15	317	160	180	152	776	399	210	250	254	300	-	120	182	
BL50/170-18.5/2	65	50	3	100	350	127	147	304	50	15	317	160	180	152	820	399	254	300	254	300	-	120	202	
BL50/170-22/2	65	50	3	100	350	127	147	326	61	15	365	180	180	152	814	400	241	280	279	321	-	120	232	
BL50/220-18.5/2	65	50	3	100	350	153	172	304	50	15	317	160	200	159	817	396	254	300	254	300	-	110	219	
BL50/220-22/2	65	50	3	100	350	153	172	326	61	15	365	180	200	159	811	397	241	280	279	321	-	110	249	
BL50/220-30/2	65	50	3	100	400	153	172	405	61	15	406	200	200	159	961	387	279	318	279	321	-	110	324	
BL50/220-37/2	65	50	3	100	400	153	172	405	83	19	406	200	200	159	961	404	305	365	318	400	-	110	359	
BL65/140-5.5/2	80	65	2	100	300	123	151	221	45	12	274	132	180	155	610	331	140	175	216	250	-	120	99	
BL65/140-7.5/2	80	65	2	100	300	123	151	221	45	12	274	132	180	155	610	331	140	175	216	250	-	120	106	
BL65/140-11/2	80	65	3	100	350	123	151	304	50	15	317	160	180	155	784	407	210	250	254	300	-	120	173	
BL65/140-15/2	80	65	3	100	350	123	151	304	50	15	317	160	180	155	784	407	210	250	254	300	-	120	173	
BL65/140-18.5/2	80	65	3	100	350	123	151	304	50	15	317	160	180	155	828	407	254	300	254	300	-	120	193	

Monobloc Pumps

BL Series

BL Series

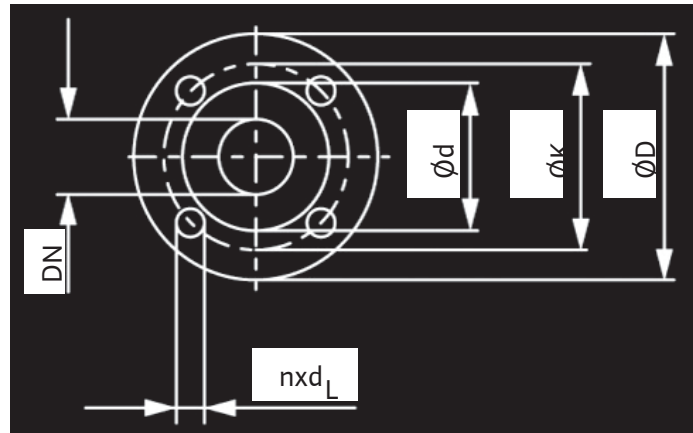
외형치수

외형치수 2pole

Model	DN		Fig.	a	Øa ¹	b ¹	b ²	b ³	b ⁴	d ¹	Øg	h ¹	h ²	h ³	~f ¹	i	m ¹	m ²	n ¹	n ²	n ³	x	~Net Weight (kg)
	Suc.	Dis.																					
BL65/170-11/2	80	65	3	100	350	136	162	304	50	15	317	160	200	155	784	407	210	250	254	300	-	120	197
BL65/170-15/2	80	65	3	100	350	136	162	304	50	15	317	160	200	155	784	407	210	250	254	300	-	120	197
BL65/170-18.5/2	80	65	3	100	350	136	162	304	50	15	317	160	200	155	828	407	254	300	254	300	-	120	217
BL65/170-22/2	80	65	3	100	350	136	162	326	61	15	365	180	200	155	822	408	241	280	279	321	-	120	247
BL65/170-30/2	80	65	3	100	350	136	162	405	61	15	406	200	200	155	972	397	279	318	279	321	-	120	317
BL65/220-22/2	80	65	3	100	350	156	181	326	61	15	365	180	225	170	828	414	241	280	279	321	-	120	259
BL65/220-30/2	80	65	3	100	400	156	181	405	61	15	406	200	225	170	979	404	279	318	279	321	-	120	334
BL65/220-37/2	80	65	3	100	400	156	181	405	83	19	406	200	225	170	979	421	305	365	318	400	-	120	414
BL65/220-45/2	80	65	3	100	400	156	181	405	82	19	406	200	225	170	1109	410	305	365	318	400	-	120	454
BL80/170-22/2	100	80	3	125	350	160	196	326	61	15	365	180	225	178	829	415	241	280	279	321	-	135	250
BL80/170-30/2	100	80	3	125	400	160	196	405	61	15	406	200	225	178	979	405	279	318	279	321	-	135	320
BL80/170-37/2	100	80	3	125	400	160	196	405	83	19	406	200	225	178	979	422	305	365	318	400	-	135	400
BL80/170-45/2	100	80	3	125	400	160	196	405	82	19	406	200	225	178	1109	411	305	365	318	400	-	135	440
BL80/220-37/2	100	80	3	125	400	170	197	405	83	19	406	200	250	178	980	422	305	365	318	400	-	120	422
BL80/220-45/2	100	80	3	125	400	170	197	405	82	19	406	200	250	178	1110	411	305	365	318	400	-	120	462

BL Series 외형도 및 플랜지 규격

외형도



플랜지 규격 (PN 16 - EN 1092-2)

Nominal flange diameter DN	Pump flange dimensions			
	ØD	Ød	Øk	n x d _L
	(mm)			Number x mm
32	140	76	100	4 × 19
40	150	84	110	4 × 19
50	165	99	125	4 × 19
65	185	118	145	4 × 19
80	200	132	160	8 × 19
100	220	156	180	8 × 19
125	250	188	210	8 × 19
150	285	211	240	8 × 23

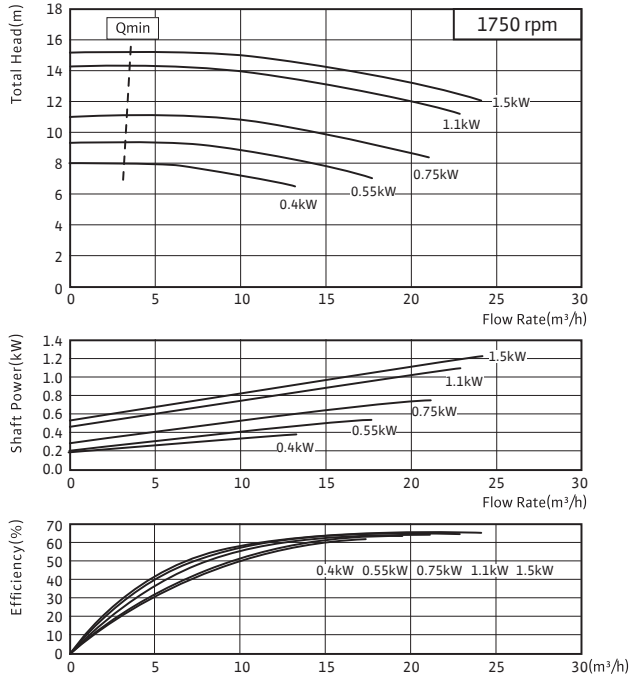
Monobloc Pumps

BL Series

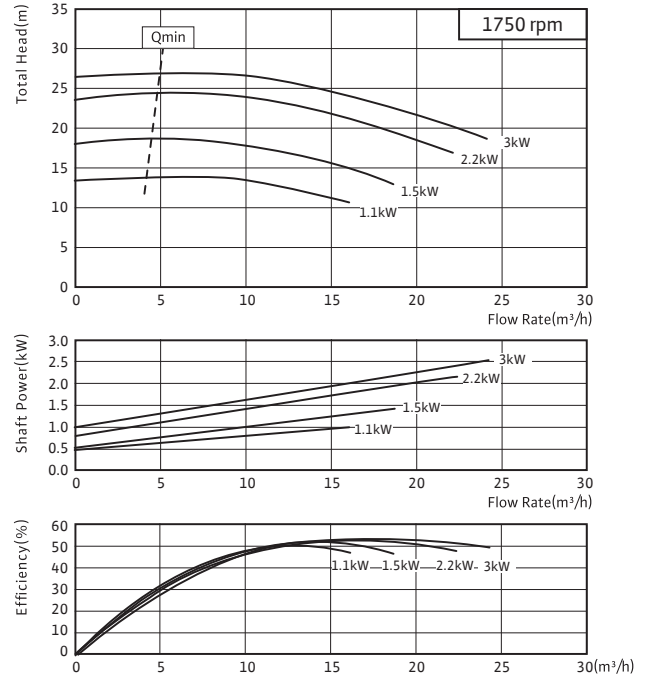
BL Series

성능곡선 4pole

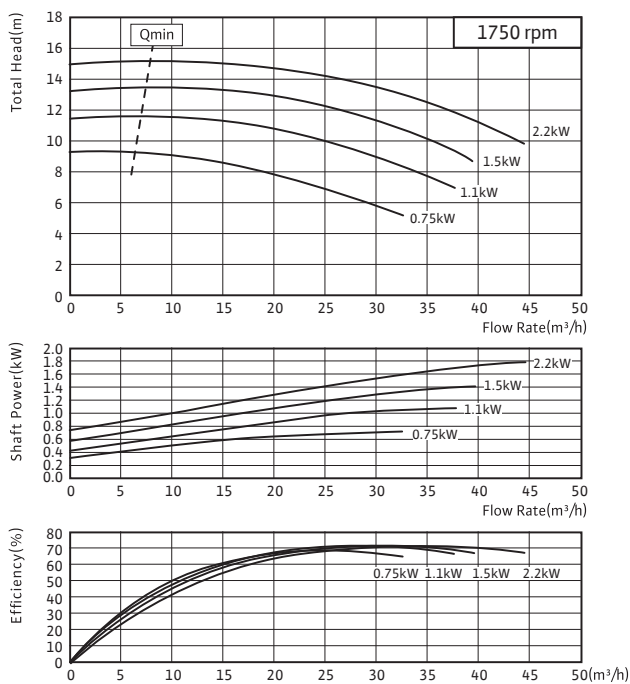
BL 32/170



BL 32/220



BL 40/170

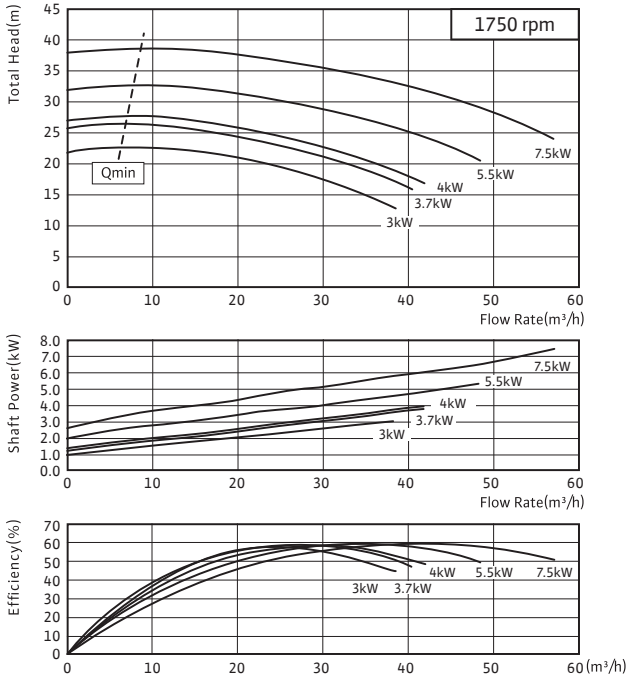


BL 40/220

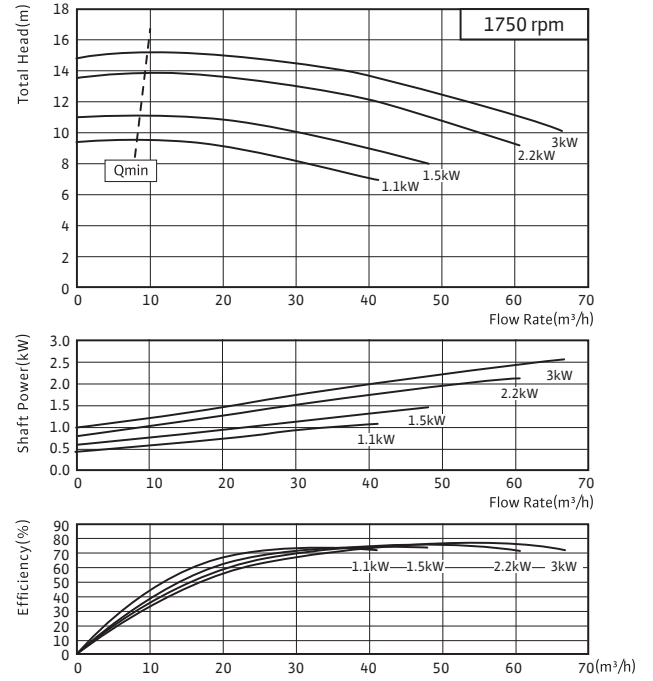


BL Series 성능곡선 4pole

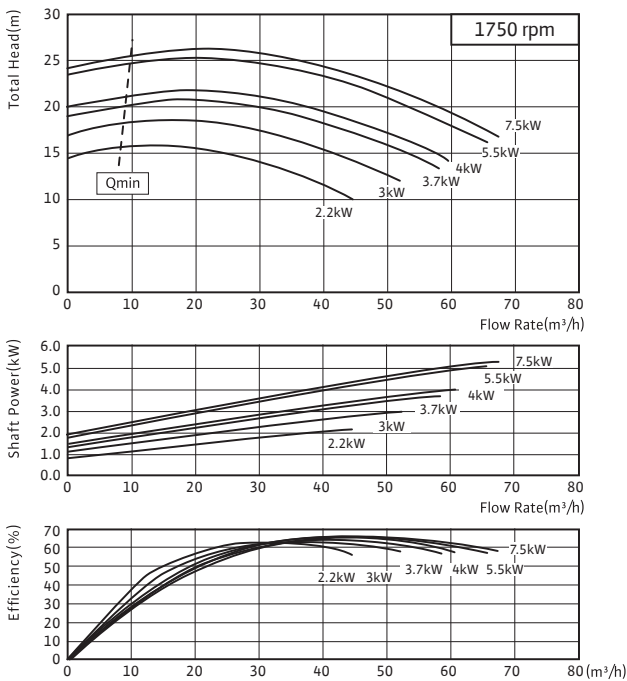
BL 40/275



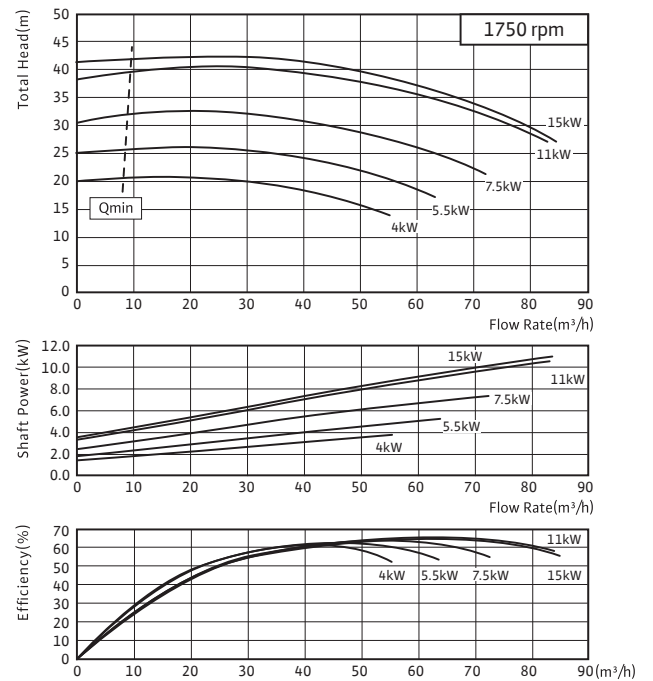
BL 50/170



BL 50/220



BL 50/270



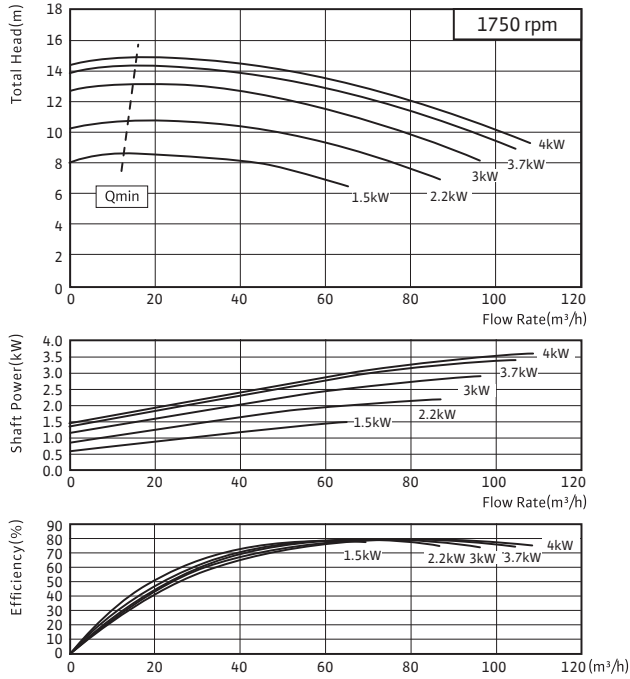
Monobloc Pumps

BL Series

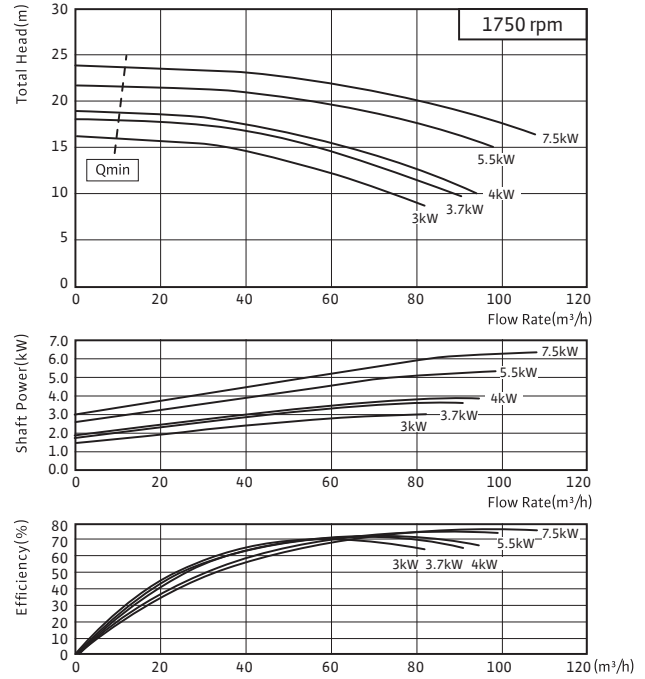
BL Series

성능곡선 4pole

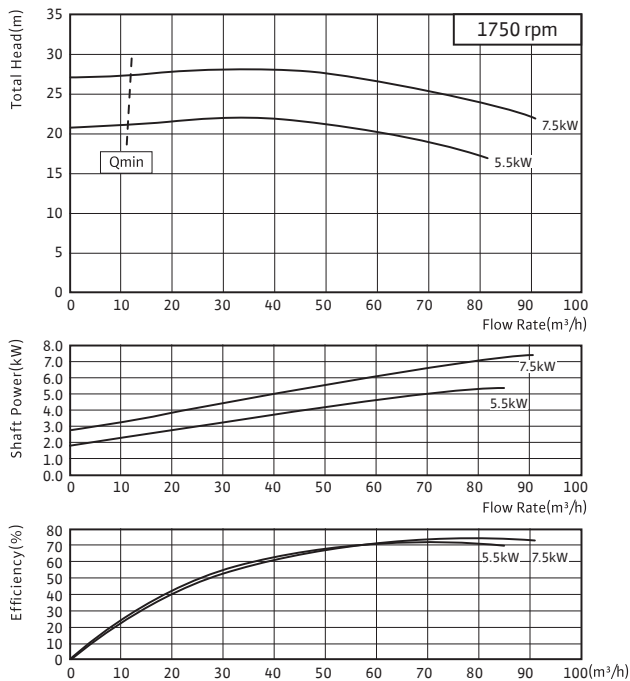
BL 65/170



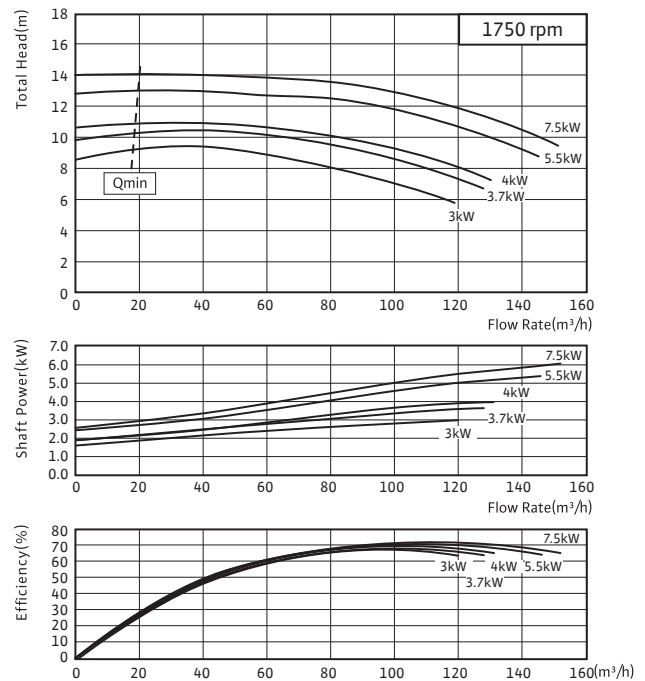
BL 65/220



BL 65/275

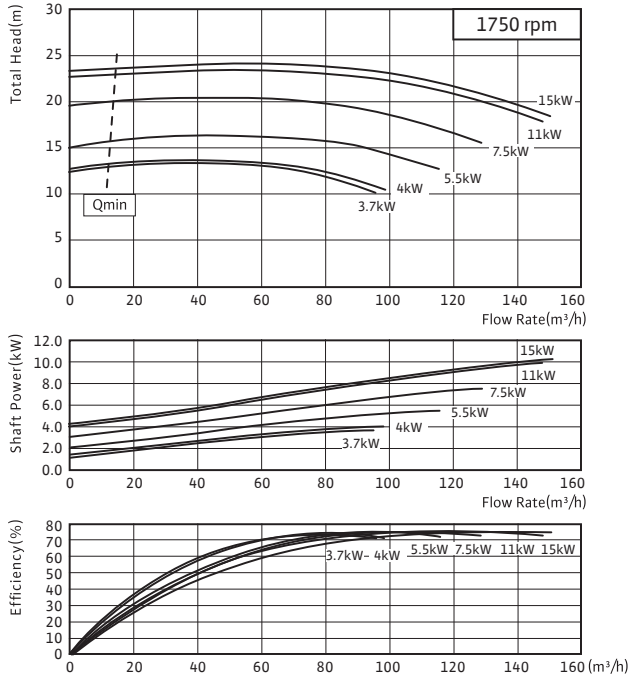


BL 80/170

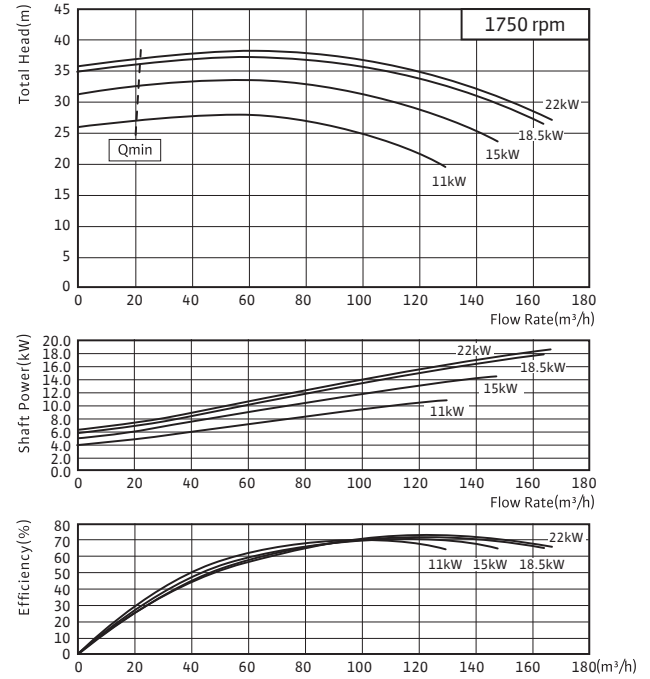


BL Series 성능곡선 4pole

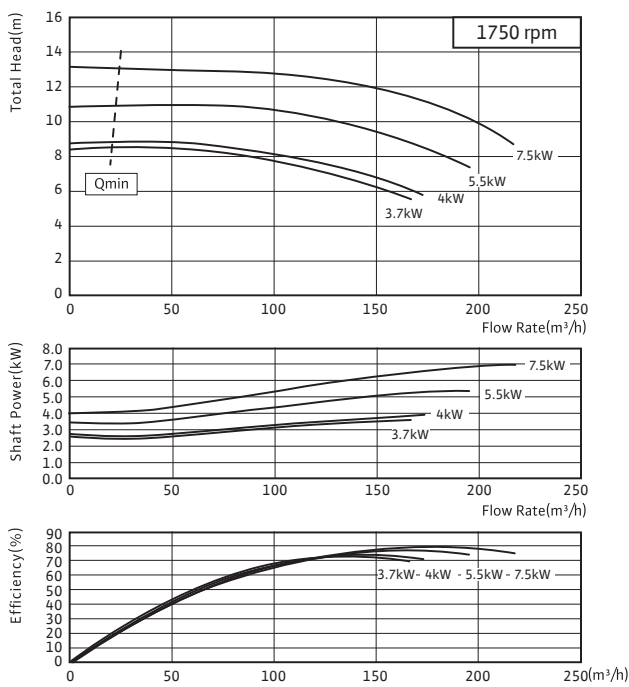
BL 80/220



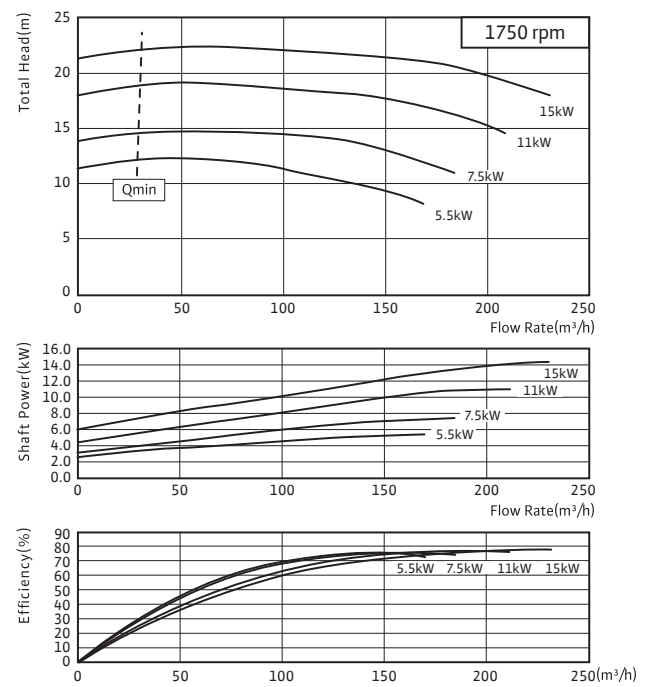
BL 80/270



BL 100/170



BL 100/220



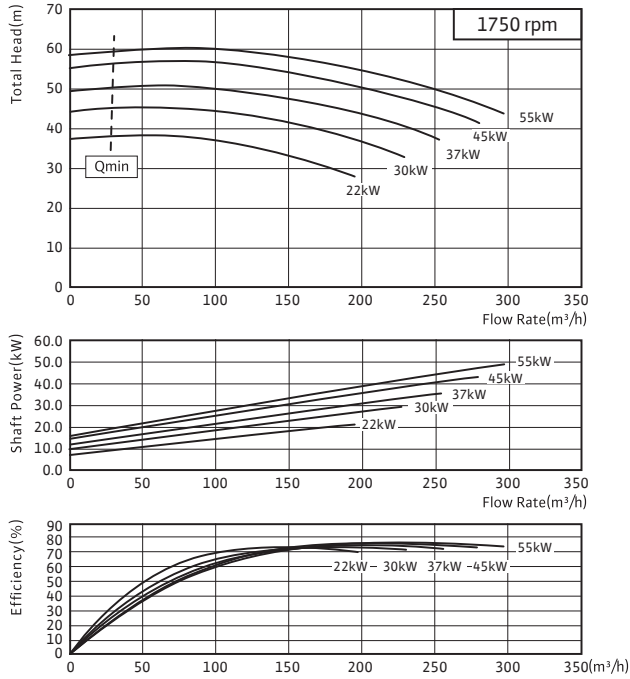
Monobloc Pumps

BL Series

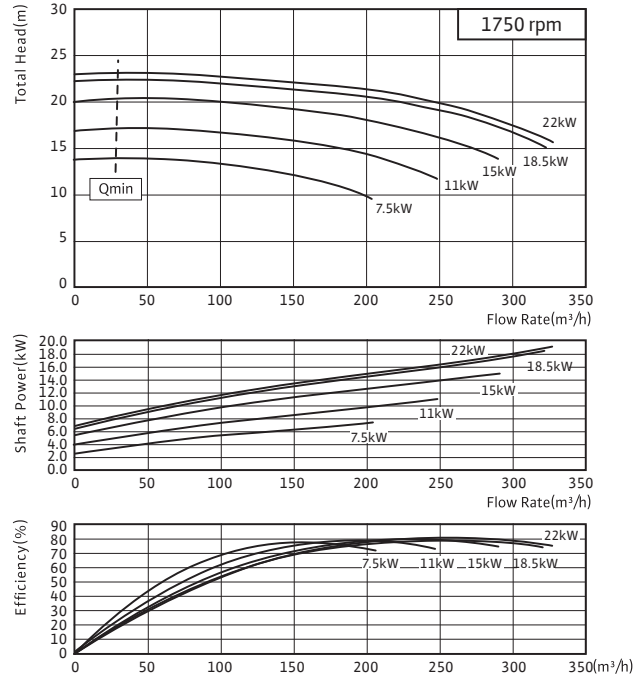
BL Series

성능곡선 4pole

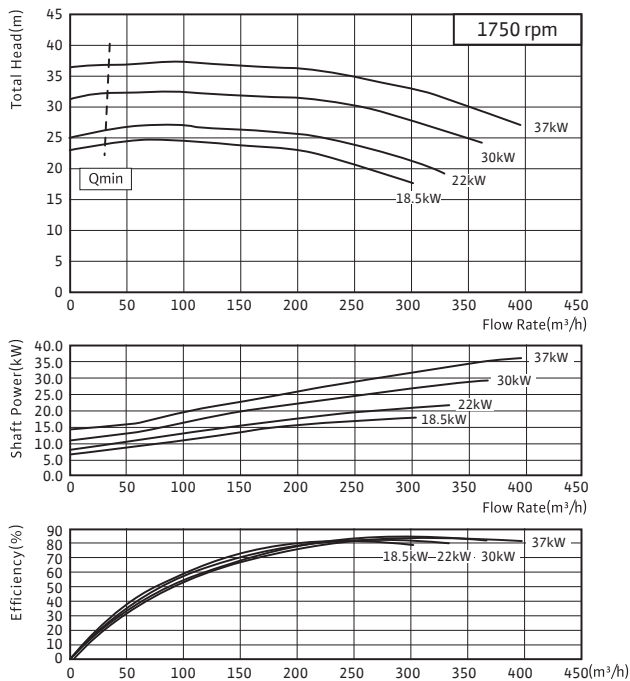
BL 100/345



BL 125/225

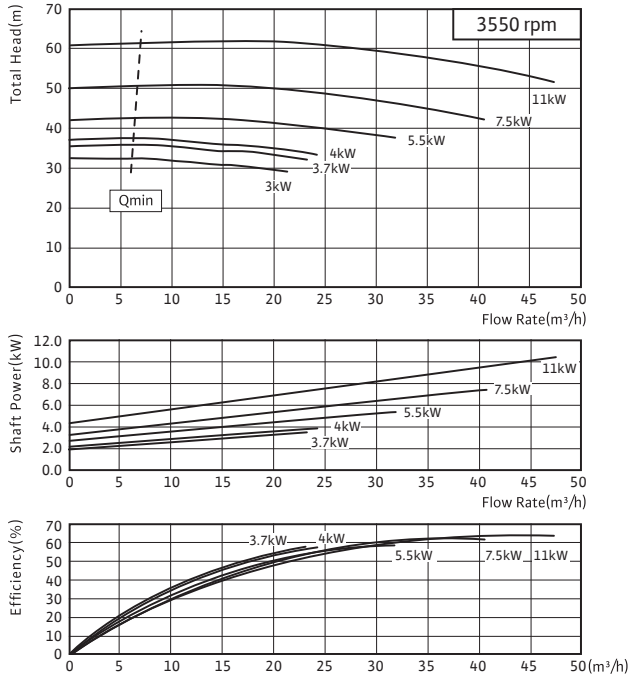


BL 125/275

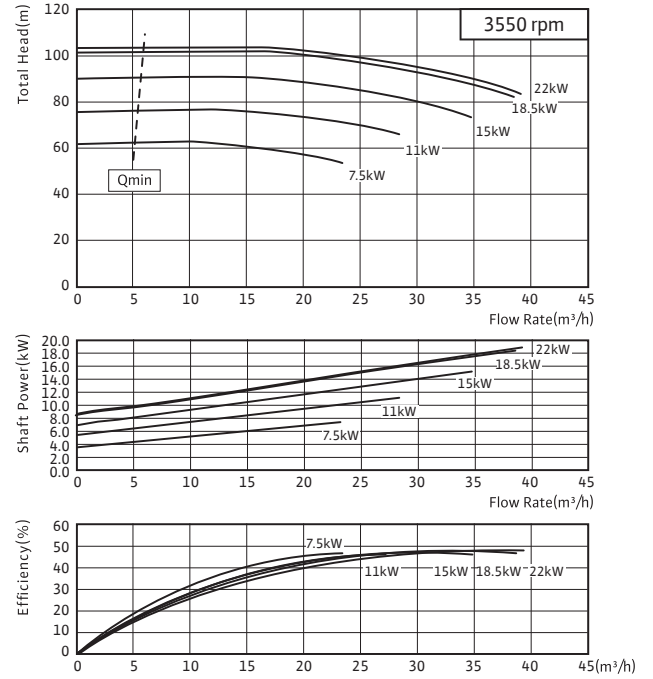


BL Series 성능곡선 2pole

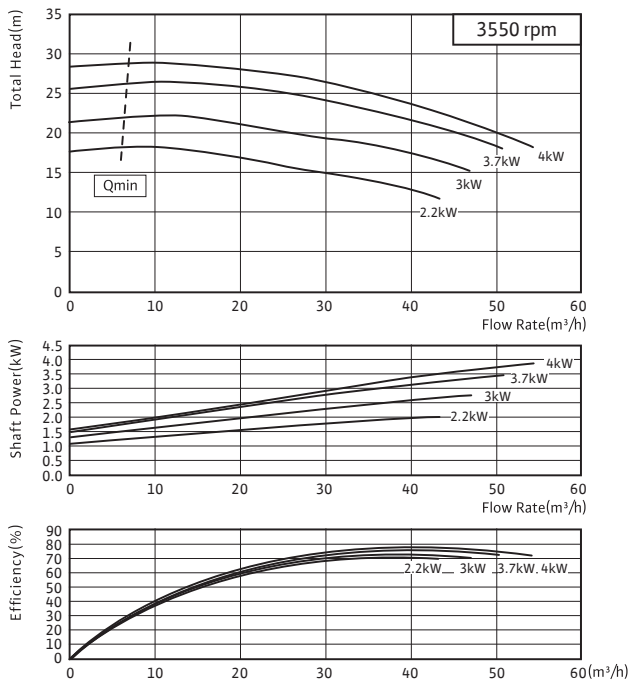
BL 32/170



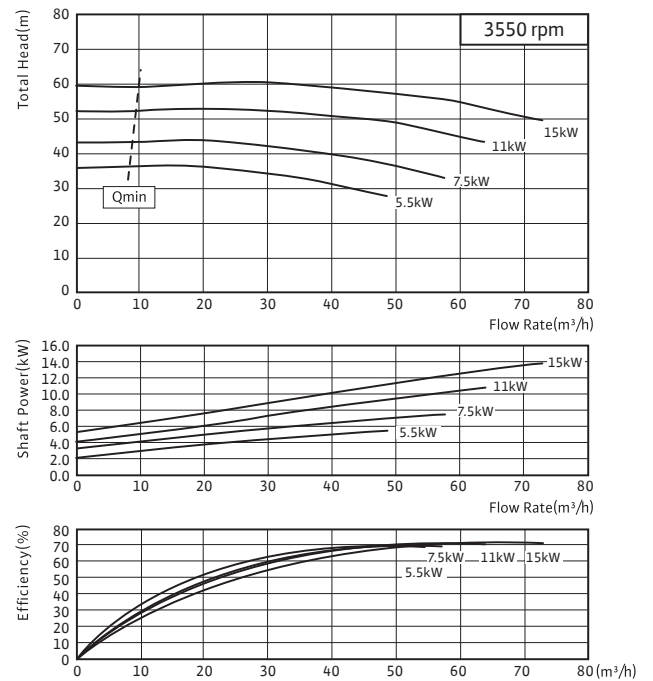
BL 32/220



BL 40/140



BL 40/170



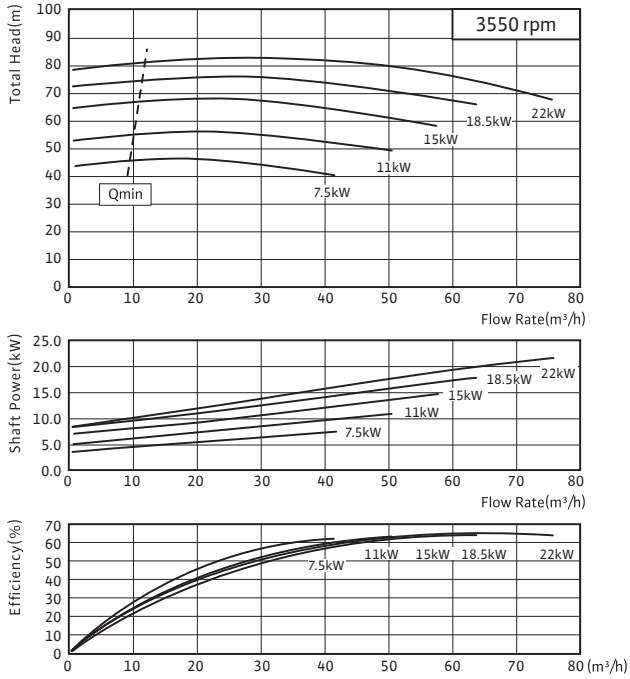
Monobloc Pumps

BL Series

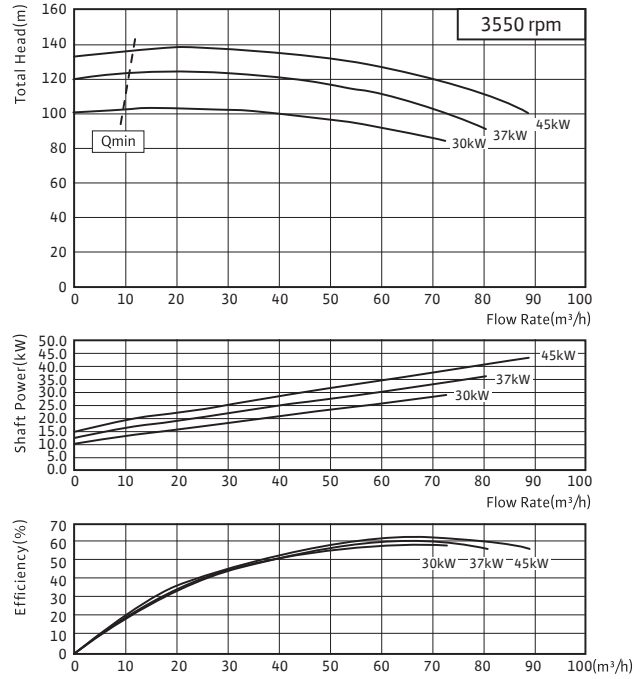
BL Series

성능곡선 2pole

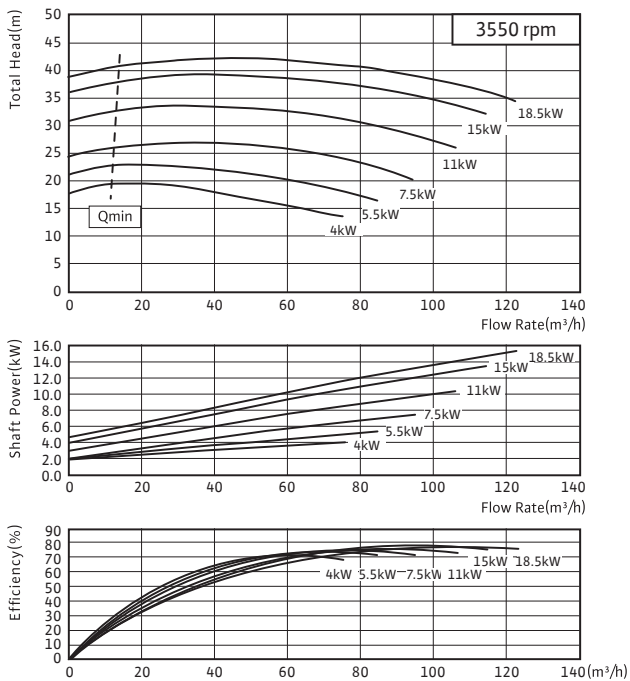
BL 40/220



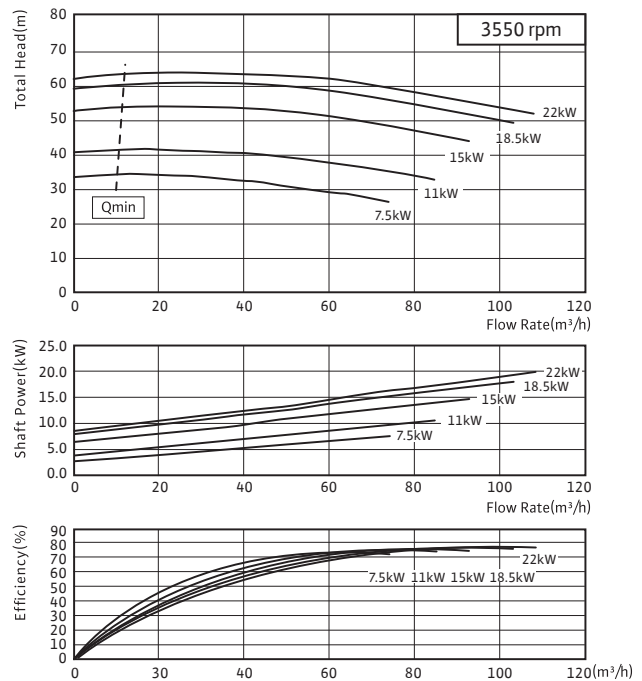
BL 40/275



BL 50/140

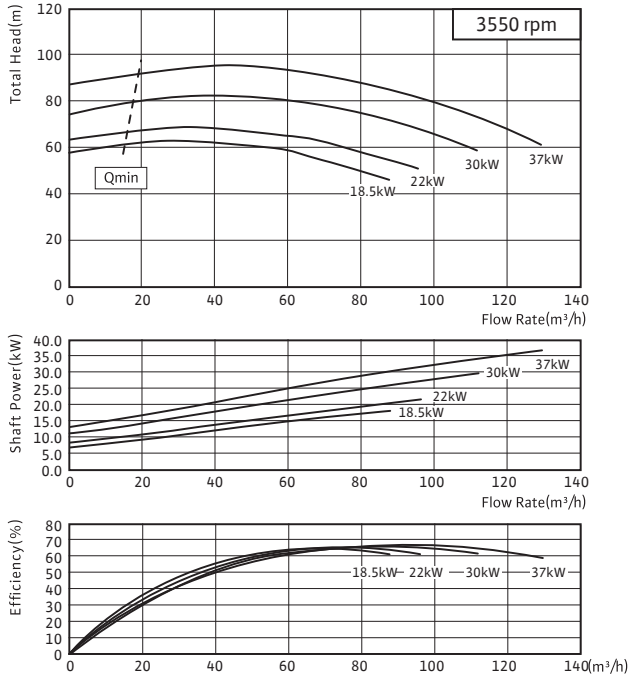


BL 50/170

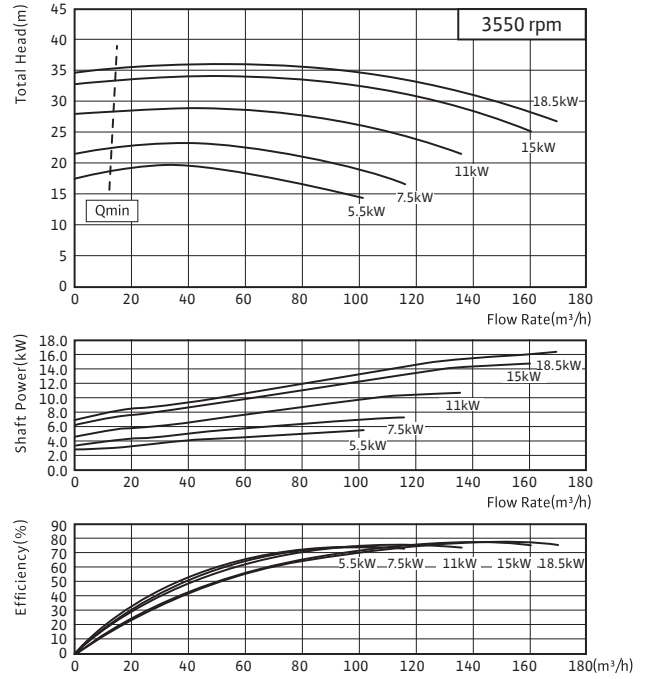


BL Series 성능곡선 2pole

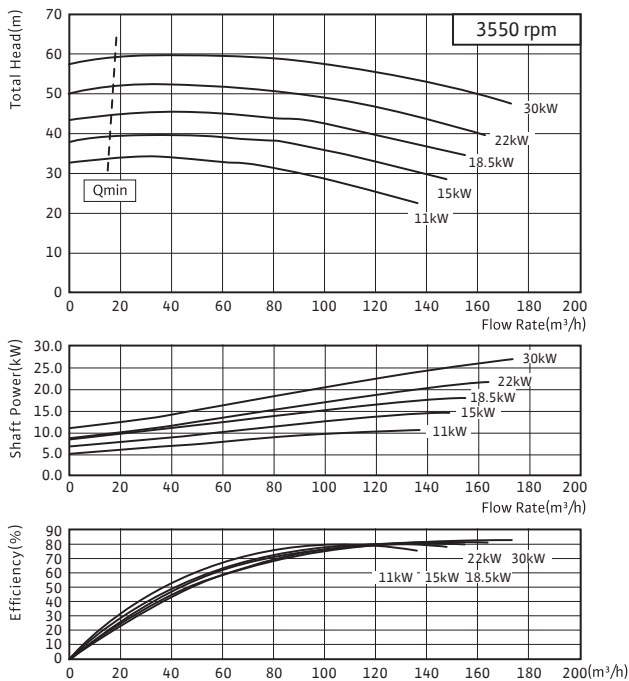
BL 50/220



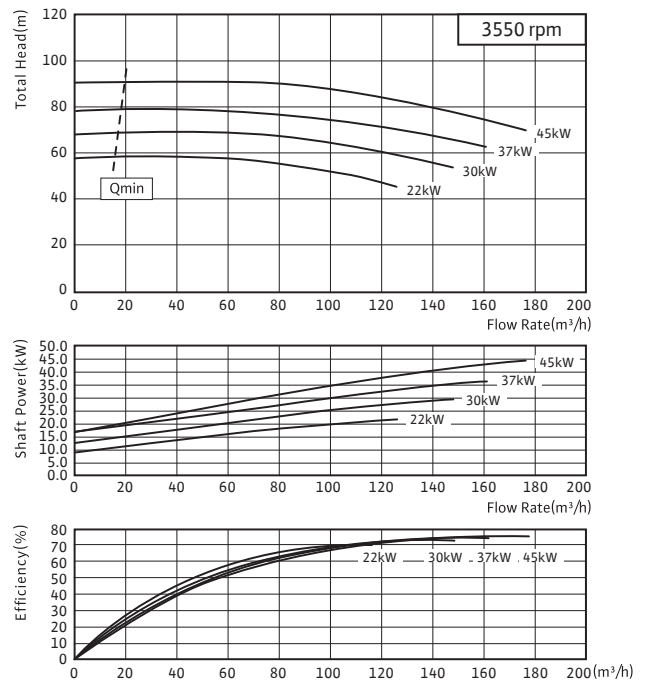
BL 65/140



BL 65/170



BL 65/220



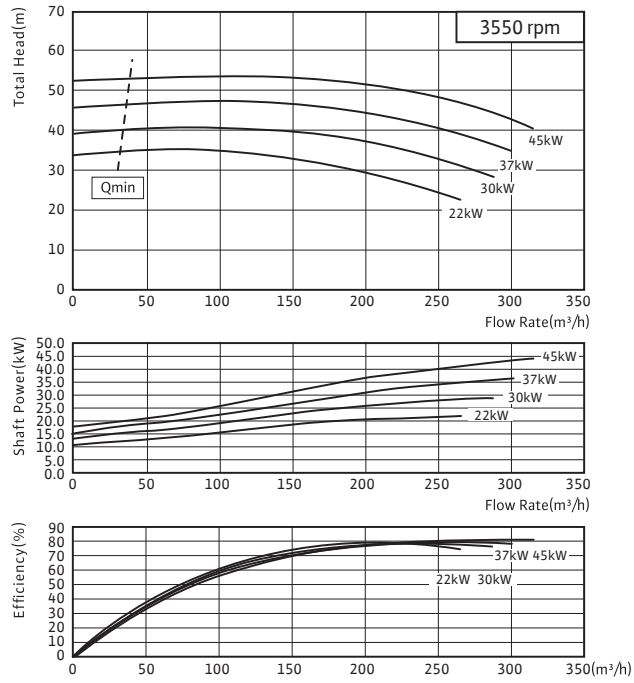
Monobloc Pumps

BL Series

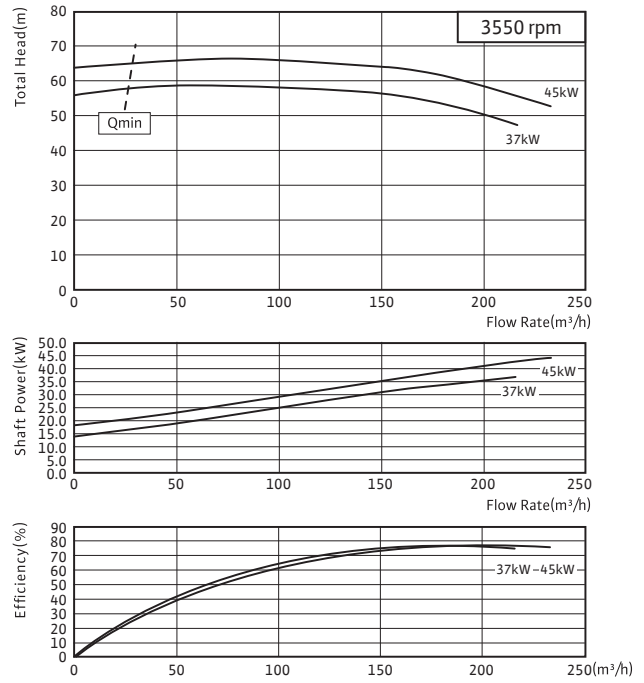
BL Series

성능곡선 2pole

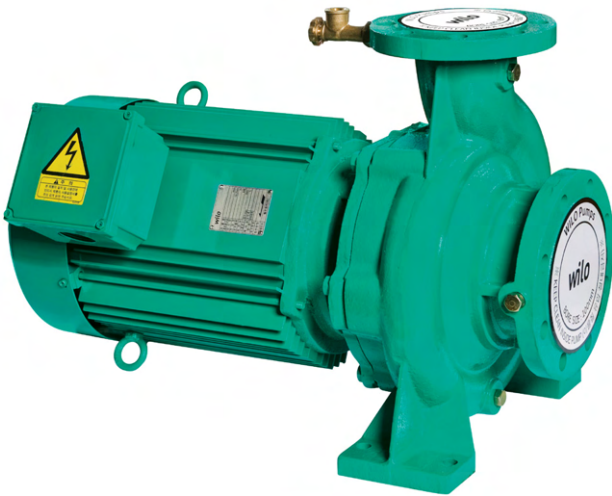
BL 80/170



BL 80/220



PSC Series 제품소개



적용범위

- 맑은 액체용 - 청수 및 해수
- 일반산업용 및 급수시설용
- 가정용수 공급용 및 빌딩 수처리용
- 관개용수용 및 선박용, 드레인용
- 공기조화용 및 스프레이용(스프링클러용)
- 냉각 또는 가열 순환용

사용유체(0~100°C의 청수, pH6~8)

- 고온 또는 청수가 아닌 액을 취급할 경우에는 이송액의 특성(온도, 농도, 고형물의 유/무)과 사용조건에 따라 내마모성, 내식성이 현저히 변화되는 경우가 있으므로 반드시 영업 또는 공장으로 문의

구조

- 물의 흐름이 용이하도록 설계된 3차원 임펠러를 적용
- 표준화 설계를 통한 광범위한 사용 영역 확보
- Back pull-out 구조로 편리한 유지보수
- 토출부가 중앙상부에 위치하여 배관하중에 대한 안전성과 펌프 가동 시 Balance가 유지
- Compact한 구조로 Space-saving 실현

흡입속 조건

흡입 전양정 또는 압입 압력은 아래표에 따름

흡입 전양정 허용치		
액의 온도	흡입구경	흡입 전양정
0°C ~ 40°C	50 ~ 80mm	-6m 이내
	100 ~ 125mm	-5.5m 이내

흡입 전양정 보정치	
온도	보정치
40°C 이상 ~ 50°C 미만	+1
50°C 이상 ~ 60°C 미만	+2
60°C 이상 ~ 70°C 미만	+3.5
70°C 이상 ~ 80°C 미만	+5
80°C 이상 ~ 90°C 미만	+7
90°C 이상 ~ 95°C 미만	+9
95°C 이상 ~ 100°C 이하	+11

표준 흡입 압력 허용치

흡입 압력이 4kgf/cm² 이하이면서

$$\left[10 - \frac{\text{펌프 체적 전양정}}{10} \right] \text{kgf/cm}^2 \text{이내}$$

또한 흡입압력이 순간적으로 변하지 않아야 함
상기조건을 벗어나는 경우에는 영업 또는 공장으로 문의

운전조건

- 기동반복이 빈번한 자동제어용으로 펌프를 사용할 경우에는 임펠러의 파손 우려가 있으므로 임펠러 재질을 BC6급 이상으로 사용
- 자동제어용으로 사용할 경우 기동반복이 시간당 12회를 넘지 않아야 함
- 수격현상(워터해머)이 발생되지 않도록 배관을 구성

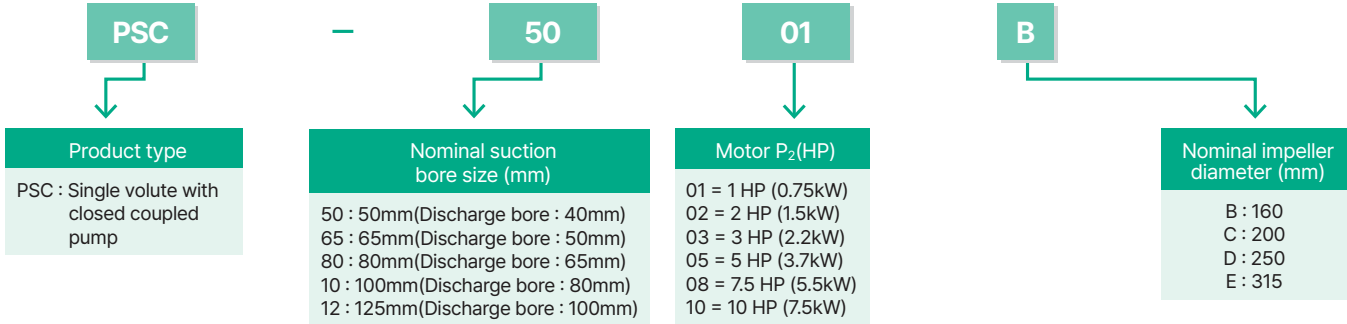
Monobloc Pumps

PSC Series

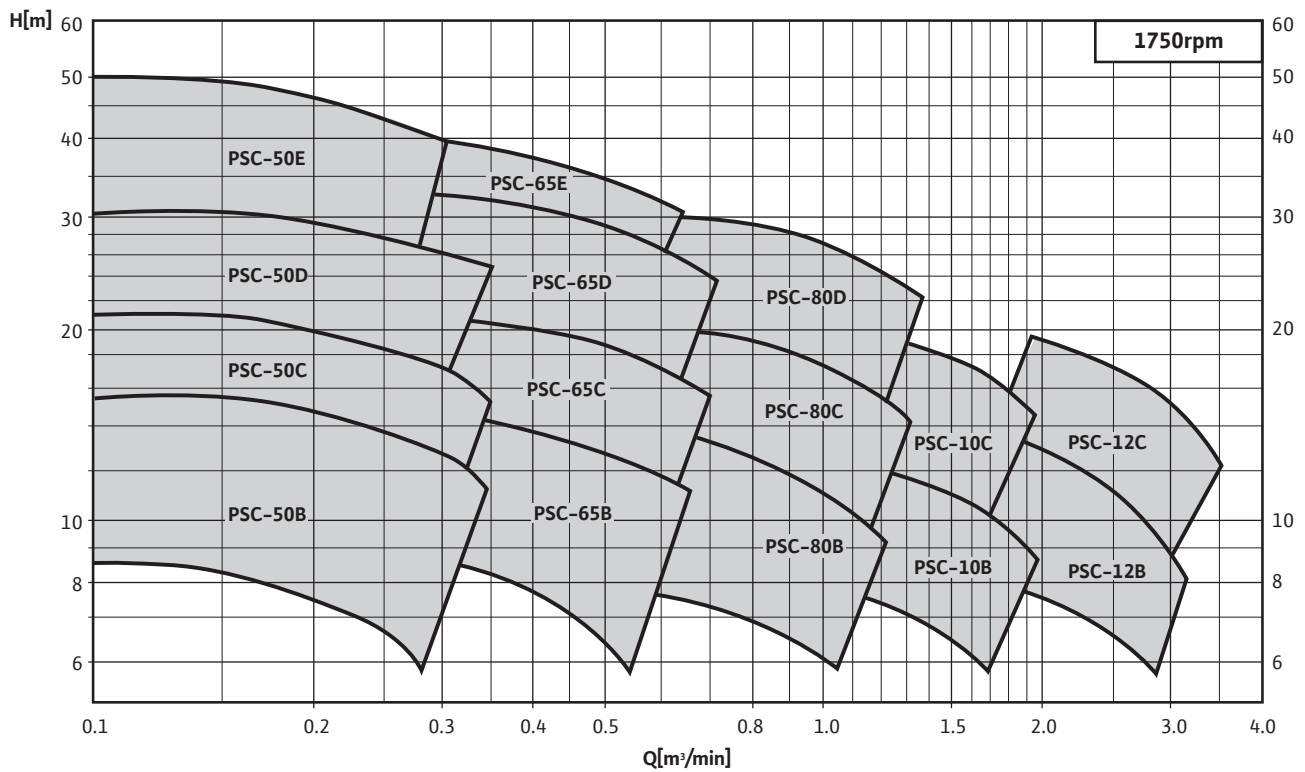
PSC Series

모델명 및 선정도

모델명 부여기준

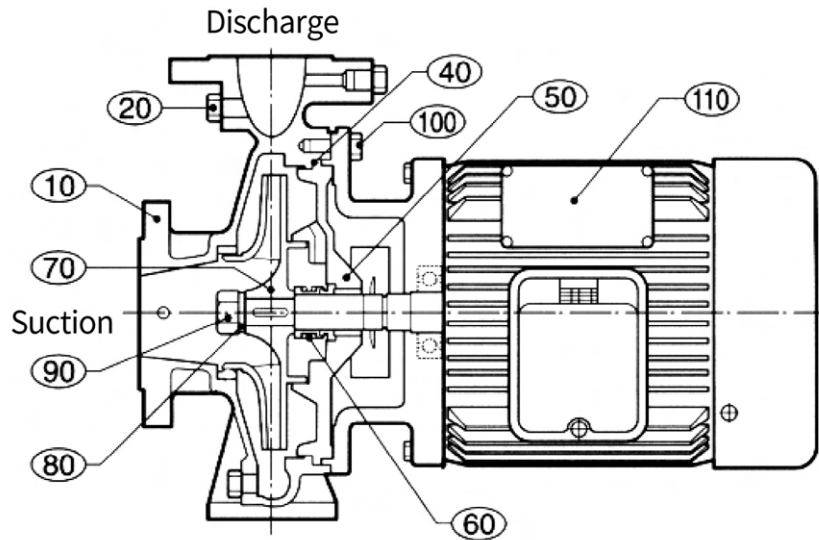


선정도



PSC Series 단면도

단면도



No.	Part	Material
10	Casing	표준 : GC200 옵션 : SSC/SC/Bronze
20	Plug	S45C
40	Gasket	표준 : EPDM 옵션 : Viton
50	Casing Cover	GCD450
60	Mechanical seal	표준 : SiC/Carbon-EPDM 옵션 : SiC/SiC-Viton
70	Impeller	표준 : GC200 옵션 : SSC/Bronze
80	Washer	STS
90	Nut	STS
100	Bolt	S20C
110	Motor	-

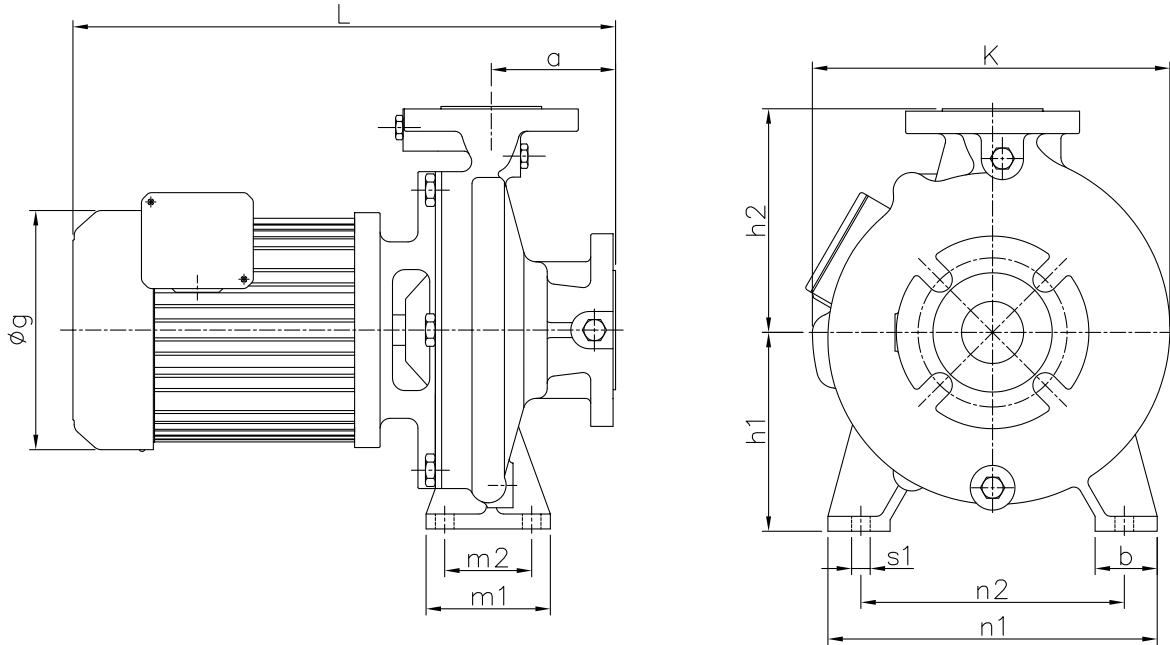
Monobloc Pumps

PSC Series

PSC Series

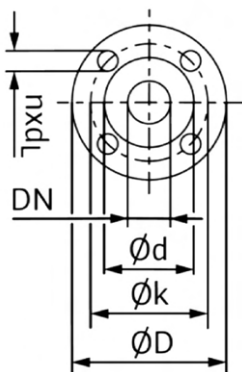
외형도 및 플랜지 규격

외형도



No.	PSC series	Suction Bore	Discharge Bore
1	PSC-50	DN 50	DN 40
2	PSC-65	DN 65	DN 50
3	PSC-80	DN 80	DN 65
4	PSC-100	DN 100	DN 80
5	PSC-125	DN 125	DN 100

플랜지 규격 KS B 1511 : KS10K



DN	D	d	K	n	dL	Bolt
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

PSC Series

외형치수

외형치수															
No.	PSC series	P2 (kW)	a	L	øg	h1	h2	K	b	m1	m2	n1	n2	s1	Weight (kg)
1	PSC-5001B	0.75	80	427	170	132	160	250	50	100	70	240	190	15	50
2	PSC-5002B	1.5	80	473	196	132	160	250	50	100	70	240	190	15	59
3	PSC-5003C	2.2	100	536	196	160	180	290	50	100	70	265	212	15	73
4	PSC-5005D	3.7	100	592	255	180	225	350	65	125	95	320	250	15	77
5	PSC-5008D	5.5	100	653	282	180	225	350	65	125	95	320	250	15	90
6	PSC-5008E	5.5	125	681	282	225	250	415	65	125	95	345	280	15	108
7	PSC-5010E	7.5	125	681	282	225	250	415	65	125	95	345	280	15	113
8	PSC-6502B	1.5	100	493	196	160	180	255	50	100	70	265	212	15	65
9	PSC-6503B	2.2	100	543	196	160	180	255	50	100	70	265	212	15	72
10	PSC-6503C	2.2	100	536	196	160	200	305	50	100	70	265	212	15	79
11	PSC-6505C	3.7	100	582	255	160	200	305	50	100	70	265	212	15	81
12	PSC-6505D	3.7	100	592	255	180	225	350	65	125	95	320	250	15	89
13	PSC-6508D	5.5	100	653	282	180	225	350	65	125	95	320	250	15	102
14	PSC-6510E	7.5	125	681	282	225	280	415	65	125	95	345	280	15	112
15	PSC-8003B	2.2	100	548	196	160	200	275	65	125	95	280	212	15	74
16	PSC-8005B	3.7	100	599	255	160	200	275	65	125	95	280	212	15	75
17	PSC-8005C	3.7	100	582	255	180	225	345	65	125	95	320	250	15	90
18	PSC-8008C	5.5	100	642	282	180	225	345	65	125	95	320	250	15	103
19	PSC-8008D	5.5	100	667	282	200	250	370	80	160	120	360	280	19	115
20	PSC-8010D	7.5	100	667	282	200	250	370	80	160	120	360	280	19	120
21	PSC-1005B	3.7	125	624	255	180	225	310	65	125	95	320	250	15	103
22	PSC-1008B	5.5	125	684	282	180	225	310	65	125	95	320	250	15	120
23	PSC-1008C	5.5	125	688	282	180	250	330	65	125	95	345	280	15	112
24	PSC-1010C	7.5	125	688	282	180	250	330	65	125	95	345	280	15	117
25	PSC-1208B	5.5	125	693	282	200	280	360	80	160	120	360	280	19	135
26	PSC-1210B	7.5	125	688	282	200	280	360	80	160	120	360	280	19	140
27	PSC-1210C	7.5	125	688	282	200	280	360	80	160	120	360	280	19	140

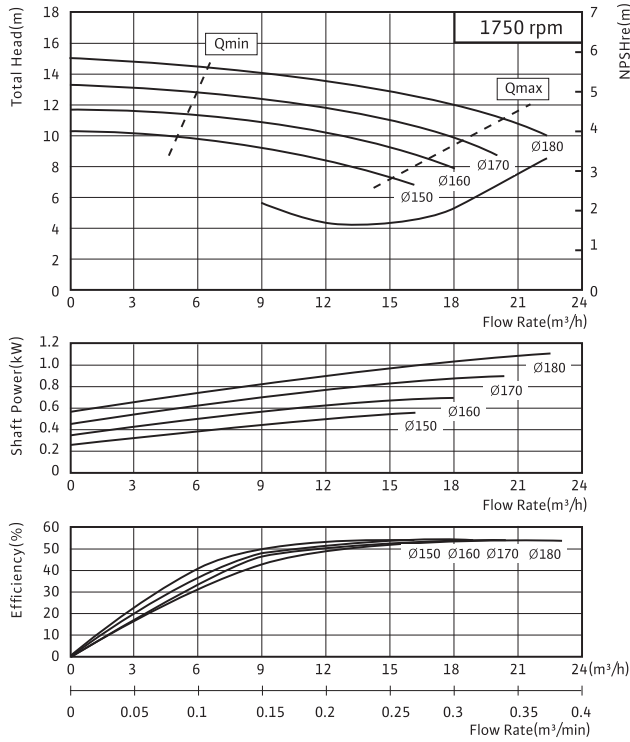
Monobloc Pumps

PSC Series

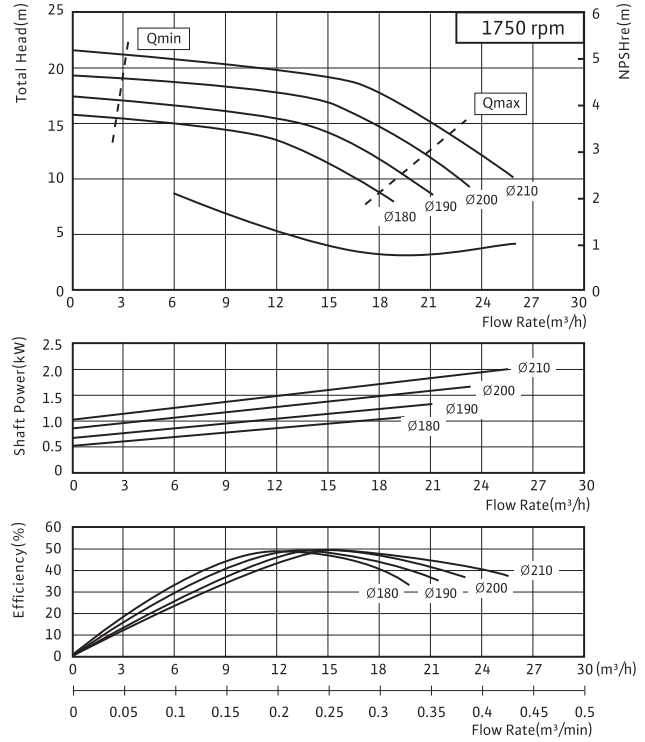
PSC-50B / 50C / 50D / 50E

성능곡선 4pole

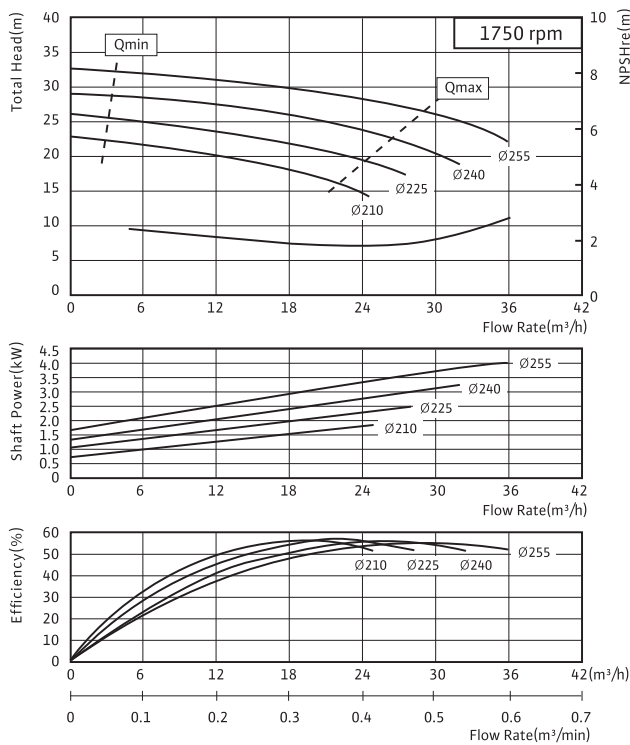
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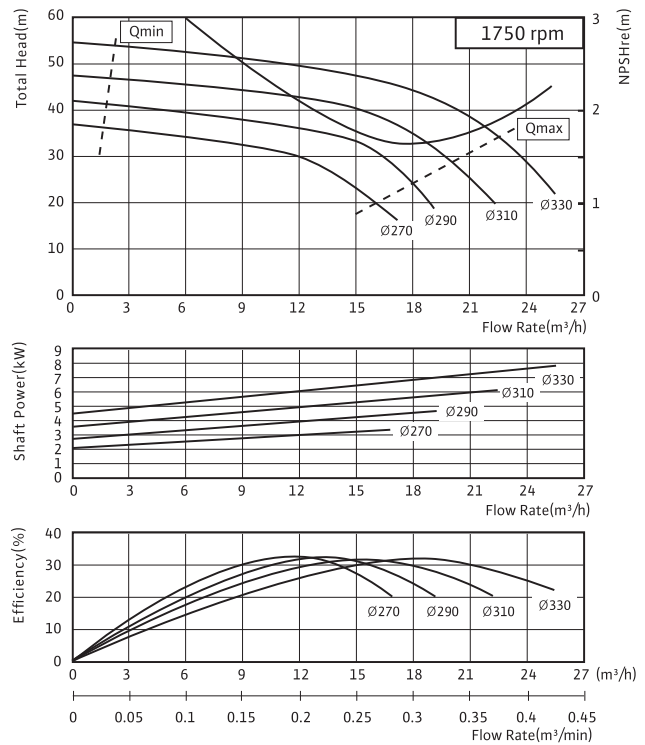
PSC - 50C



PSC - 50D



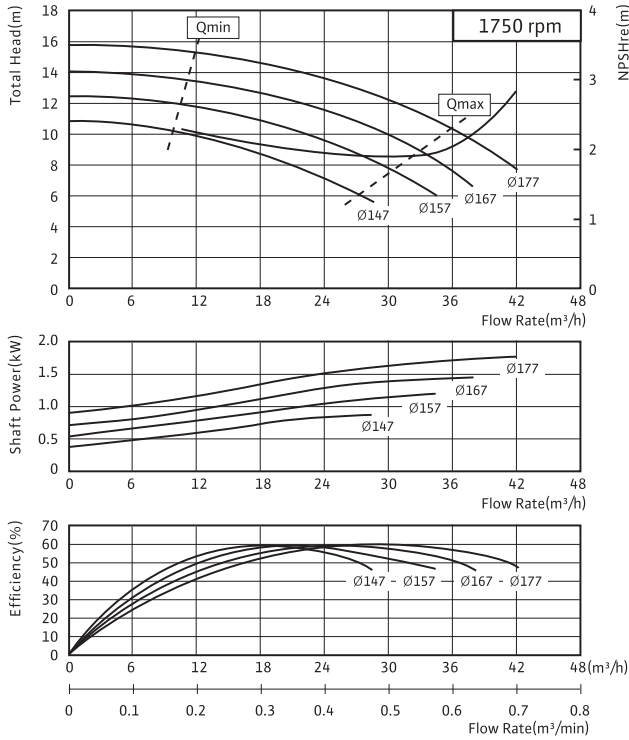
PSC - 50E



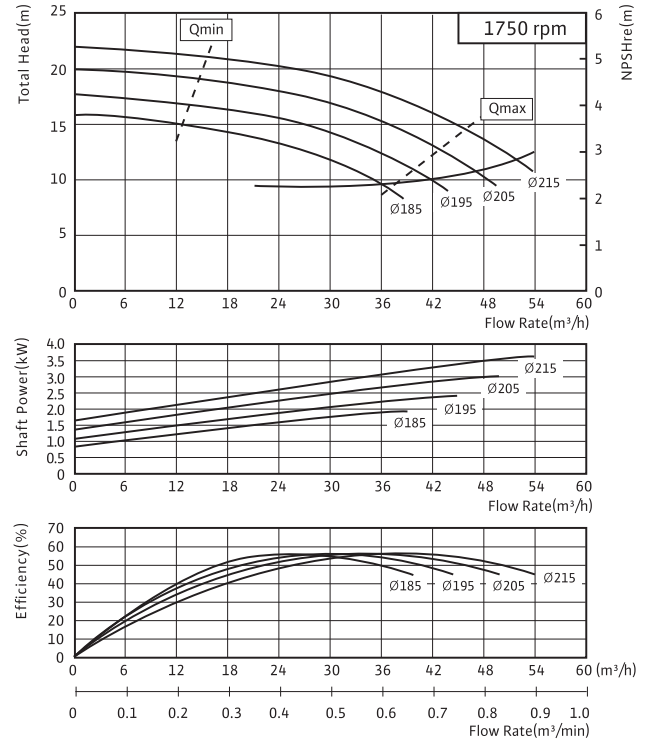
PSC-65B / 65C / 65D / 65E

성능곡선 4pole

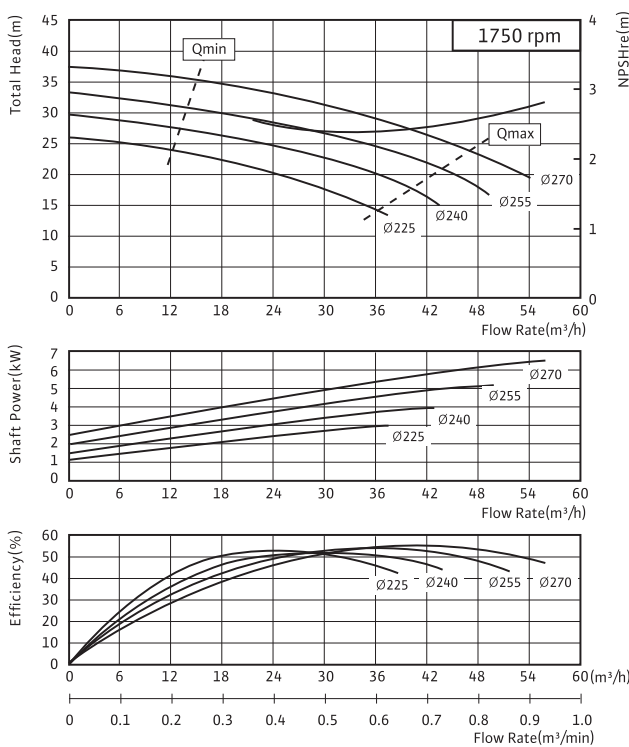
PSC - 65B



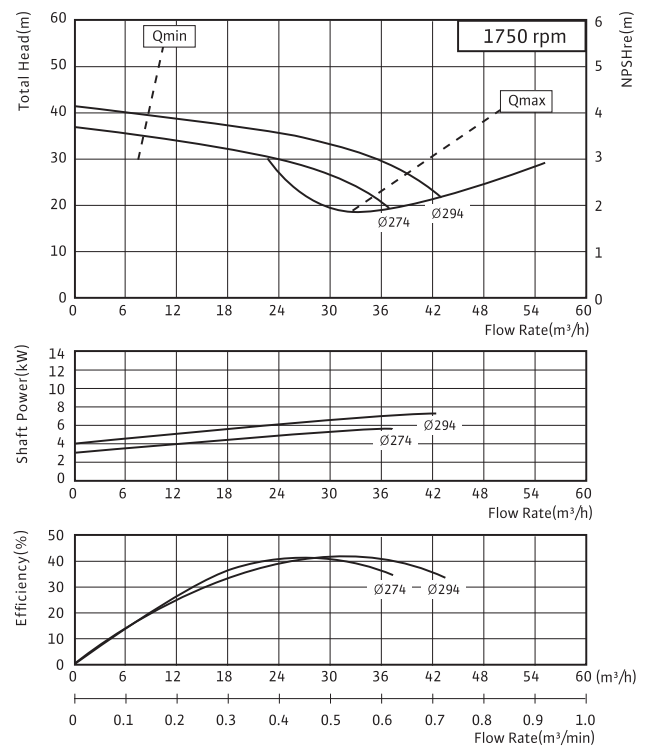
PSC - 65C



PSC - 65D



PSC - 65E



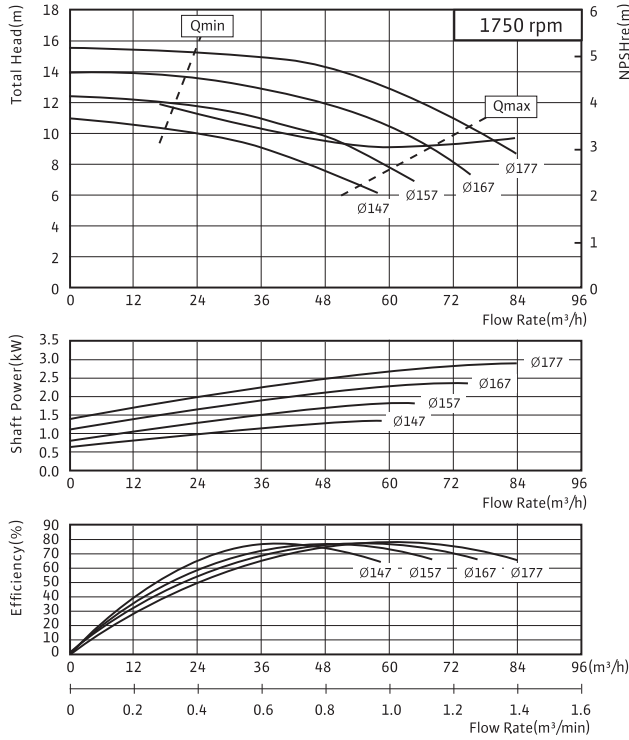
Monobloc Pumps

PSC Series

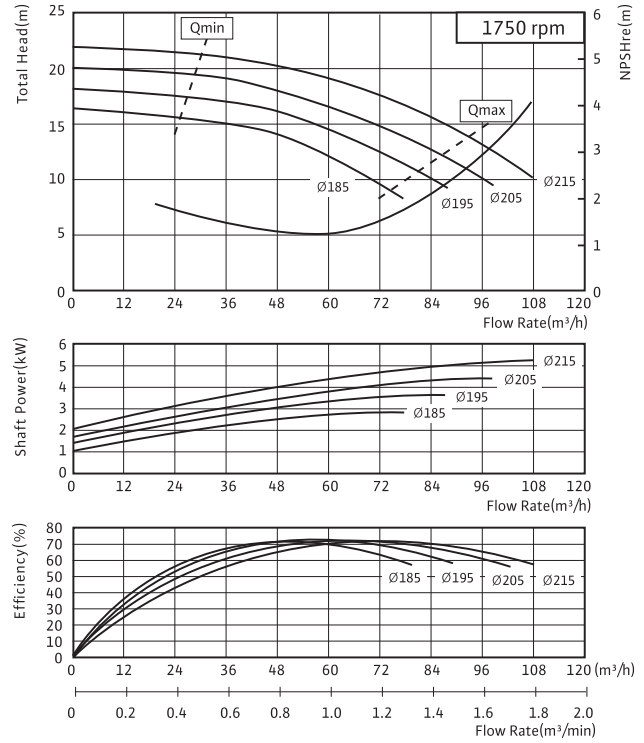
PSC-80B / 80C / 80D / 10B

성능곡선 4pole

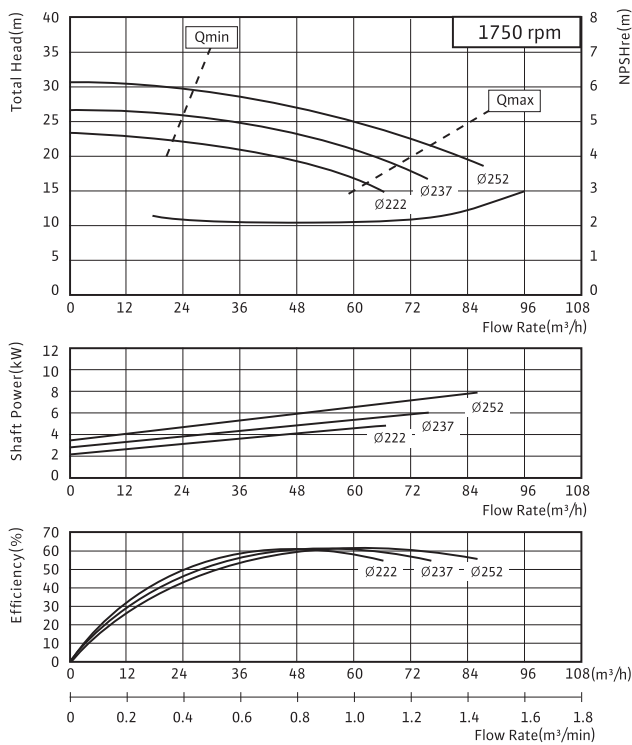
PSC - 80B



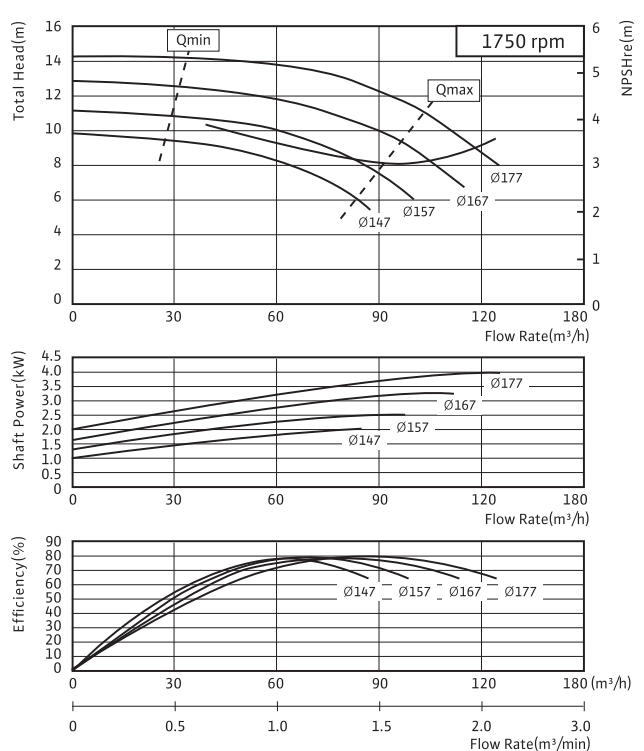
PSC - 80C



PSC - 80D



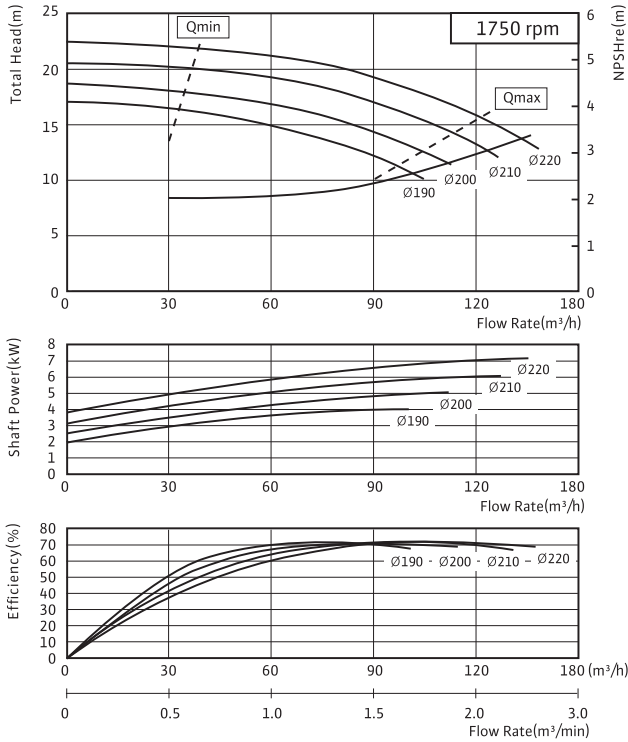
PSC - 10B



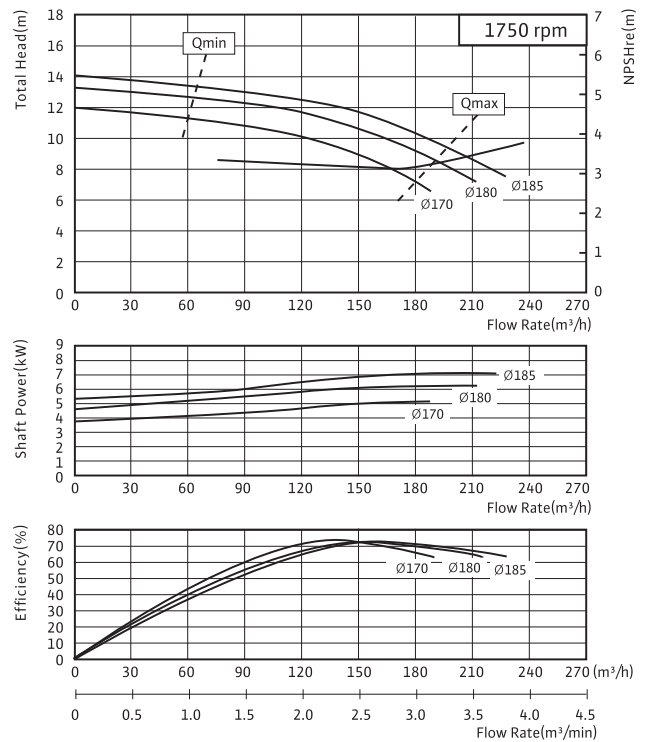
PSC-10C / 12B / 12C

성능곡선 4pole

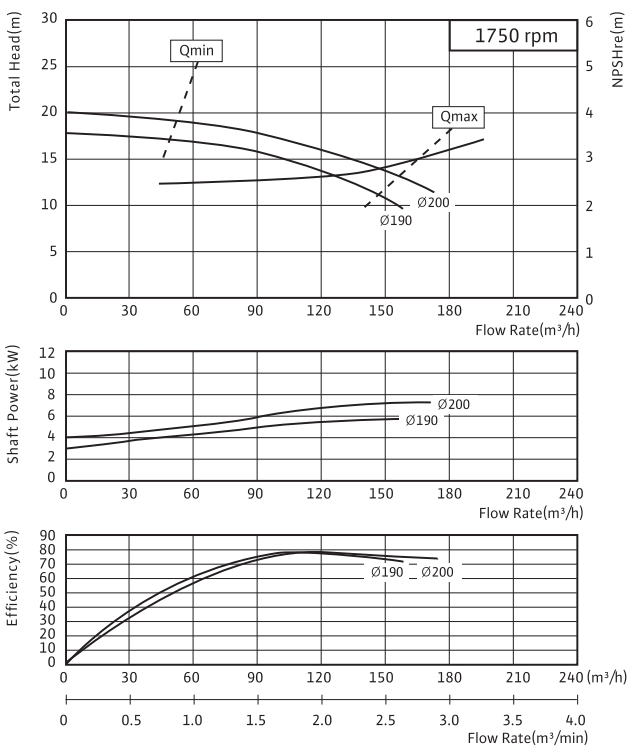
PSC - 10C



PSC - 12B



PSC - 12C

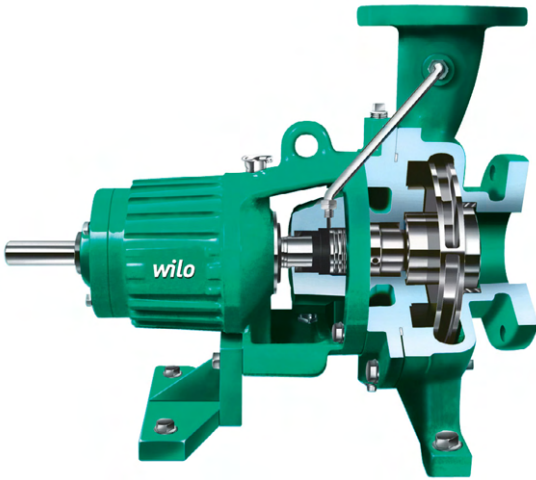


ANSI Process Pumps

PCP Series

PCP Series

제품소개



적용범위

- 화학공업(Cheical Industry)
- 석유 정제(Petroleum Refinery)
- 석유화학공업(Petrochemical Industry)
- 공업PLANT설비

특장점

- Process Pump 사용에 새로운 방향 제시
API 610규격의 주요 사항을 수용한 견고한 설계를 채택
- 높은 효율 및 낮은 Stuffing Box 압력
Closed Impeller를 채용하여 Open Impeller사용시 발생하는 유량의 손실을 작게하여 높은 효율을 내며 낮은 Stuffing Box 압력으로 M/Seal 손실 최소화
- 간편한 유지보수
흡, 토출관을 분해하지 않고 수리가 가능한 Back Pull Out 구조
Bearing Housing Adapter가 없어 Alignment 작업이 용이
Casing에 Wear ring이 장착되어 유지 보수비용이 절감
Labrynth Type Bearing Housing Sealing 구조로 긴 수명
- 수력학적 Radial Balance 유지
토출 구경이 4" 이상의 Pump는 Casing이 Double Volute로 설계 됨
- Stuffing Box Jacket
설치시 Welding이 필요없는 구조

PCP PUMP 운전범위

유량 (Capacity)	680m ³ /hr (3000 US GPM)	
양정 (Total Head)	12~210m (40~689 FT)	
임펠러 (Impeller)	31.6kgf/cm ² (400 psi)	
최고설계 압력 (Max. Design Pressure)	밀폐형 (Closed Type)	
사용온도 (Temperature)	~120°C (~248°F)	
플랜지 규격 (Flange Rating)	(Stainless)Steel	ANSI 150 lbs x RF / 300 lbs x RF

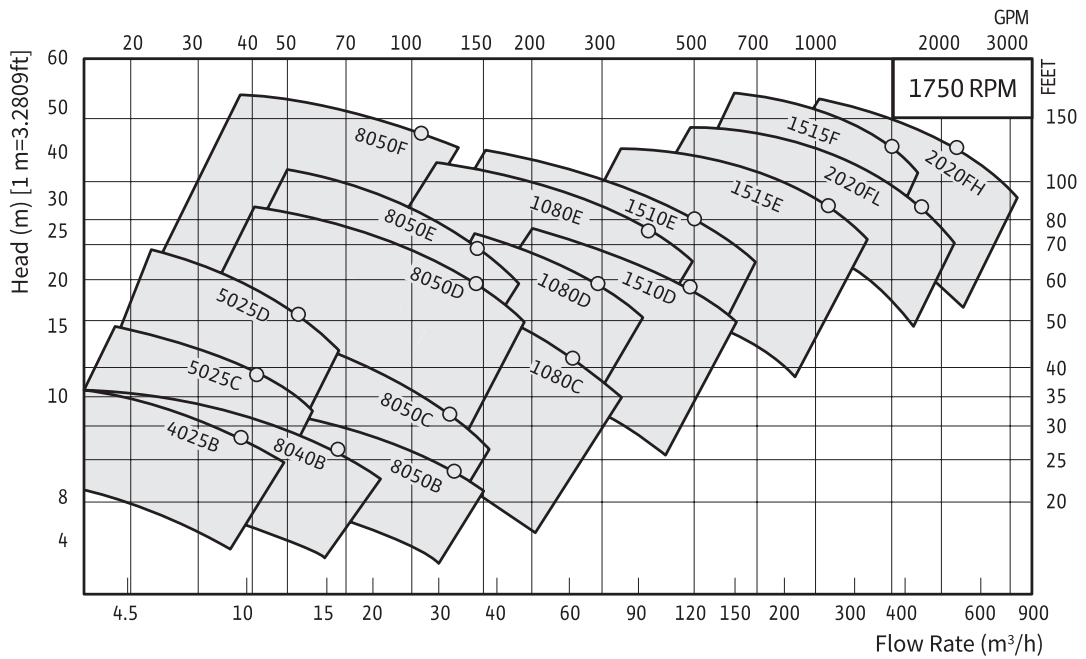
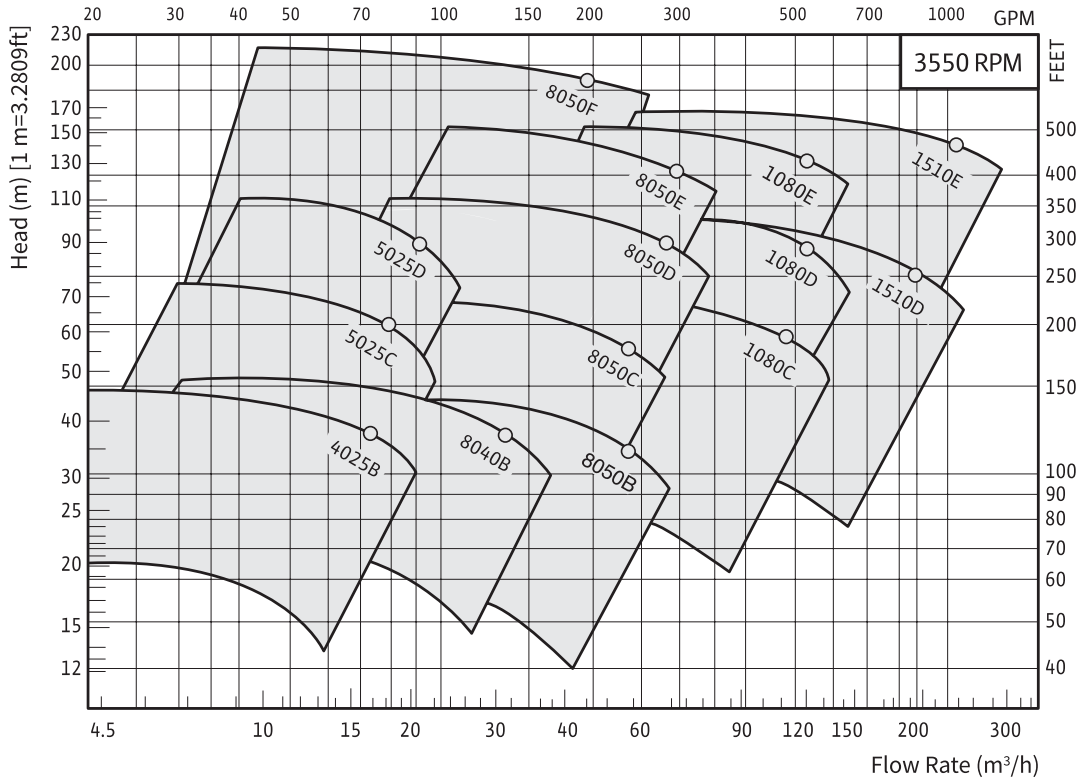
ANSI Process Pumps

PCP Series



3550RPM / 1750RPM

선정도



* PUMP 효율 및 축동력은 당사에서 제공하는 DATA SHEET 및 성능곡선도를 참조

ANSI Process Pumps

PCP Series

PCP Series

기술 DATA

Data							
MODEL	BEARING HOUSING ASSEMBLY NO.	구경		케이싱 살두께(Min)	Corrosion Allowable	최대수압시험(10min.)	임펠러와 케이싱 커버를 포함한 B/R ASM 중량
		흡입	토출			주강	
4025B	"06"	40(1 ¹ / ₂)	25(1)	9.5(1/4)	6.4(1/4)	31.6kgf/cm ² (450lbf/in ²)	24.5kg(54lb)
8040B		76(3)	40(1 ¹ / ₂)	9.5(1/4)	6.4(1/4)		25kg(55lb)
8050B		76(3)	50(2)	9.5(1/4)	6.4(1/4)		34kg(75lb)
5025C	"09"	50(2)	25(1)	9.5(1/4)	6.4(1/4)	31.6kgf/cm ² (450lbf/in ²)	41kg(90lb)
8050C		76(3)	50(2)	9.5(1/4)	6.4(1/4)		49kg(108lb)
1080C		100(4)	76(3)	9.5(1/4)	6.4(1/4)		51kg(112lb)
5025D		50(2)	25(1)	12.7(1/2)	8(5/16)	31.6kgf/cm ² (450lbf/in ²)	52.5kg(116lb)
8050D		76(3)	50(2)	12.7(1/2)	8(5/16)		55.5kg(122lb)
1080D		100(4)	76(3)	12.7(1/2)	8(5/16)		57kg(126lb)
1510D		150(6)	100(4)	12.7(1/2)	8(5/16)		59kg(130lb)
8050E		76(3)	50(2)	12.8(1/2)	8(5/16)		63.5kg(140lb)
8050F		76(3)	50(2)	12.8(1/2)	8(5/16)		66kg(145lb)
1080E	100(4)	76(3)	12.8(1/2)	8(5/16)	31.6kgf/cm ² (450lbf/in ²)	66kg(145lb)	
1510E	150(6)	100(4)	14.3(9/16)	8(5/16)		68kg(150lb)	
1515E	150(6)	150(6)	14.3(9/16)	8(5/16)		72.5kg(160lb)	
1515F	150(6)	150(6)	14.3(9/16)	8(5/16)		81.5kg(180lb)	
2020F	200(8)	200(8)	14.3(9/16)	8(5/16)		109kg(240lb)	

- NOTES : 1.플랜지의 표준규격은 ANSI 150#RF
 2.회전방향은 커플링 측에서 보았을 때 시계방향
 3.Total중량은 당사에서 제시하는 별도의 Data Sheet를 참조

BEARING HOUSING ASSEMBLY NO.	최대동력(HP)	패킹상자(STUFFING BOX)			그랜드 패킹		반부하축 B/R	부하축 B/R
		내경	슬리브외경	깊이	수량	크기		
"06"	40	51(2)	35(1 ³ / ₈)	60(2 ⁵ / ₁₆)	7	8(5/16)	6206C ³	6306NRC ³
"09"	100	70(2 ³ / ₄)	50(2)	76(3)	7	10(3/8)	6210C ³	5309ANRC ³
"12"	200	90(3 ⁹ / ₁₆)	65(2 ⁹ / ₁₆)	92(3 ⁵ / ₈)	7	12.5(1/2)	6214C ³	5312ANRC ³

단위 : mm(inch)

BEARING HOUSING ASSEMBLY NO.	축의 주요부 치수							
	축 경					SPAN거리		
	임펠러 설치부	슬리브 외경	반부하축 B/R부	부하축 B/R부	B/R사이의 축경	커플링 설치부	B/R 간의 거리	반부하축 B/R & 임펠러
"06"	22(7/8)	29(1 ⁹ / ₆₄)	30(1 ³ / ₁₆)	30(1 ³ / ₁₆)	41(1 ¹⁵ / ₁₆)	24(1 ¹⁵ / ₁₆)	82(3 ¹ / ₄)	173(6 ¹³ / ₁₆)
"09"	32(1 ¹ / ₄)	40(1 ³⁷ / ₆₄)	50(1 ³¹ / ₃₂)	45(1 ²⁵ / ₃₂)	29(1 ⁹ / ₆₄)	29(1 ⁹ / ₆₄)	135(5 ⁵ / ₁₆)	222(8 ³ / ₄)
"12"	48(1 ⁷ / ₈)	56(1 ¹³ / ₆₄)	50(2 ³ / ₄)	60(2 ³ / ₈)	55(2 ³ / ₁₆)	55(2 ³ / ₁₆)	165(6 ¹ / ₂)	273(10 ³ / ₄)

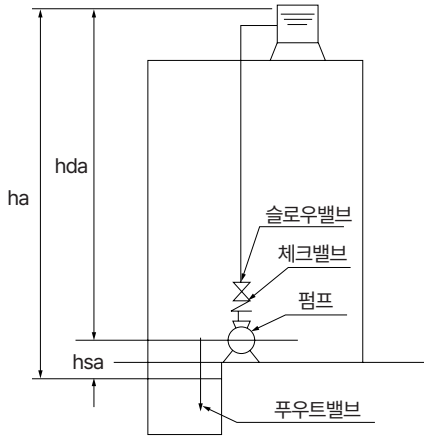
NOTES : 외형치수는 당사에서 제시하는 별도의 외형치수도를 참조

단위:mm(inch)

MODEL 선정방법 제품선정

1. 전양정 결정

전양정(H)은 흡입측에서 토출측까지 유체를 이송하는데 필요한 압력과 속도에너지 및 손실의 총합을 높이(m)로 환산한 값



$$H = h_a + h_p + h_v + h_f + h_x$$

- H = 전양정(m)
- h_a : 실높이(m) = h_{da} + h_{sa}
- h_{da} : 토출측 실높이
- h_{sa} : 흡입측 실높이(압입의 경우 "-"값이 됨)
- h_p : 압력 Head(m) * Open Tank는 대기압이므로 "0(zero)"

h_v : 토출관에 걸리는 속도 Head = $\frac{V^2}{2g}$

- h_f : 관의 마찰손실 Head
- h_x : 밸브류, 곡판, 이음관, 흡입관 등에 걸리는 손실 Head(m)

위의 방법으로 전양정(m)을 산출후 이를 압력(kgf/cm²)으로 환산하면 전양정을 10으로 나눈 값이 대략적인 압력 (예, 100m = 약 10kgf/cm²)

2. 유량확인

유량(Q)은 단위시간에 이송되는 액체의 체적을 말하며 일반적으로 유량이 적을때 양정은 높게되고 유량이 많아지면 양정 감소

3. 전양정 및 유량확인 후 Catalogue 참조하여 적합한 MODEL을 선정

4. PUMP 효율

당사가 제공하는 Data Sheet 및 성능 곡선도를 반드시 참조하여 적용 (η < 1)

$$5. \text{축동력(kW)} = \frac{0.163 \times \text{유량(m}^3/\text{min)} \times \text{양정(m)} \times \text{비중(S-G)}}{\text{펌프효율}(\eta)}$$

* 이송액에 점도가 있을 시에는 효율이 낮아지므로 축동력은 커짐

회전수 변화시의 모델/동력 선정 방법 (극수 변환, 주파수 변환)

유량은 회전수 (N)에 비례하고 $Q_2 = \left(\frac{N_2}{N_1}\right) Q_1$

양정은 회전수의 제곱에 비례하며 $H_2 = \left(\frac{N_2}{N_1}\right)^2 H_1$

축동력은 회전수의 세제곱에 비례함 $BHP_2 = \left(\frac{N_2}{N_1}\right)^3 BHP_1$

Model 선정방법

MODEL 선정방법

임펠러 외경의 계산

예) USER의 SPEC을 $\left[\begin{array}{l} \text{유량: } 0.8\text{m}^3/\text{min} \quad \text{양정: } 97\text{m} \\ \text{동력: } 22\text{kW} \quad \text{다단터빈 PUMP} \end{array} \right.$ 로 가정하면

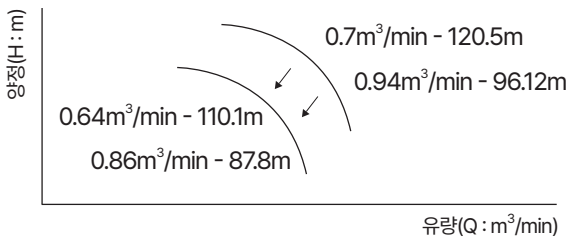
- CATALOGUE에서 PMT-6507로 기본 MODEL을 선정
- IMPELLER 외경 CUTTING SIZE 선정하여 유량 및 양정 검증

$$Q = Q1 \times \left(\frac{D2}{D1} \right)^2 \quad H = H \times \left(\frac{D2}{D1} \right)^2$$

$$Q2 = 0.94 \times \left(\frac{195}{204} \right)^2 = 0.86 \quad H2 = 96.12 \times \left(\frac{195}{204} \right)^2 = 87.8$$

$$Q3 = 0.7 \times \left(\frac{195}{204} \right)^2 = 0.64 \quad H3 = 120.5 \times \left(\frac{195}{204} \right)^2 = 110.1$$

- ① 시험 성적서(TEST REPORT)에서 가장 근접한 유량, 양정 DATA 산출 → IMPELLER D2 204mm(D1: DATA가 있는 값)
- ② IMPELLER 외경 204mm에서는 30kW사용해야 되므로 외경을 CUTTING해야함
- ③ IMPELLER 외경 204mm에서 195mm로 가정하여 유량(Q), 양정(H)을 계산하면 (D2: 가정 DATA)



* Q2, Q3와 H2, H3는 시험 성적서(TEST REPORT)에서 주문 SPEC 유량 기준점의 중앙, 좌(2), 우(1), 토출량과 총양정으로 산출

- ④ 주문 SPEC인 유량 $0.8\text{m}^3/\text{min}$ 일때 양정을 보간법으로 계산하면

$$\frac{(110.1-87.8)\text{m} \times (0.86-0.8)\text{m}^3/\text{min}}{(0.86-0.64)\text{m}^3/\text{min}} + 87.8\text{m} = 93.8\text{m}$$

* IMPELLER D2 195mm 일때 양정이 93.8m가 되므로 잘못된 선정

- ⑤ 처음부터 다시 IMPELLER D2를 198mm로 가정하여 같은 방법으로 계산하면 유량이 $0.8\text{m}^3/\text{min}$ 에 양정 99m가 되므로 USER의 SPEC을 만족

* 여기서 유량을 기준으로 양정을 +3%~6%의 여유를 줘야 함

• 축동력(BHP)의 계산

PUMP 효율(η): 65% = 0.65

이송액 비중(s.g): 맑은 청수 기준하여 비중은 1로 했을 경우

$$\text{BHP(kW)} = \frac{0.163 \times \text{유량 (Q : m}^3/\text{min}) \times \text{양정} \times \text{비중(s.g)}}{\text{PUMP 효율}(\eta)}$$

$$\frac{0.163 \times 0.8 \text{ m}^3/\text{min} \times 99\text{m} \times 1}{0.65} = 19.86\text{kW} \rightarrow 22\text{kW 사용가능}$$

* 상기에서 동력의 여유 10%가 있어야 함

$19.86 \times 1.1 = 21.8\text{kW}$ 이므로 22kW 동력 사용에 문제없음

wilo

wilo

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