

Submersible Drainage Pump GWP

Robust, reliable submersible pumps from 0.45 to 22 kW for the efficient transport of grey water. The series includes three hydraulic versions:

GWP: Standard pump for efficient transport.

GWPS: Screen pump for applications where larger solids are expected.

GWPC: Cutter pump for solids handling where fibrous materials are present.

Applications

GWP submersible pumps are used for pumping grey water in municipal, construction and industrial areas. They operate reliably in liquids containing suspended solids and are suitable for contaminated water conditions.

Construction

The submersible pump type GWP is designed as a water-pressure-tight unit, including motor, oil chamber and hydraulic section with an automatic coupling system. The GWP is available in cast iron (EC) and stainless steel (CR). Maximum allowable temperature of the medium for continuous operation is 40°C. Maximum submergence depth of 20 m.

Motor

Three-phase 400 V, 50 Hz, 2-pole (2900 r/min), 4-pole (1540 r/min) and 6-pole (980 r/min). Insulation class F; protection type IP68. Continuously rated motor (S1) in submerged applications.

Bearings

The stainless steel motor shaft is supported in heavy duty, lubricated-for-life ball bearings.

Shaft sealing

Between the motor and hydraulic section, the pump uses a high-quality sealing unit with silicon-carbide mechanical seals, independent of rotation direction and resistant to temperature shock. The motor-side seal is an oil-lubricated lip seal.

Cable

10 m or 20 m.



Temperature monitoring

Thermal sensors in the stator to switch off the pump in the case of overheating. Bimetallic Switch (≤ 4 kW) and PTC (≥ 5.5 kW).

Seal monitoring

GWP pumps of 5.5 kW and above are equipped with leakage detection electrodes in the oil and motor chambers. These sensors give an inspection signal if water enters the chambers, allowing timely maintenance and protection of the motor and shaft seals.

Materials

Part	EC (cast iron)	CR (stainless steel)
Pump casing	EN-GJL-250	1.4301 (AISI 304)
Impeller	EN-GJL-250	1.4301 (AISI 304)
Motor housing	1.4021 (AISI 420)	1.4021 (AISI 420)
Pump shaft	1.4301 (AISI 304)	1.4301 (AISI 304)
Medium-contacting fasteners	1.4301 (AISI 304)	1.4301 (AISI 304)
Lifting hoop	1.4301 (AISI 304)	1.4301 (AISI 304)

Identification Code

e.g. GWP 05 01 - 4.5 / 2 EC - 10

Hydraulics		Motor	
GWP	Product range	4.5	Motor power P ₂ kW x 10
05	Discharge outlet DN (cm)	2	Number of poles
01	Hydraulic number	EC	Cast Iron (CR = Stainless)
		10	Cable length (m)

Features

- Hydraulic design with double-channel, double-blade or vortex impellers.
- High reliability under continuous submerged operating conditions.
- Suitable for grey water containing suspended solids or fibrous materials.
- Cutter option (GWPC) for shredding fibrous materials.
- Suitable for both fixed wet-well and transportable installation.

Technical data

Pump model	Pump designation	Rated voltage (V)	Power (kW)	Rated current (A)	Weight (kg)	Solid size (mm)	Discharge (mm)
GWP	0501-4.5/2	400 3~	0.5	1.2	25	20	50
	0502-7.5/2	400 3~	0.8	1.9	25		
	0503-15/2	400 3~	1.5	3.4	37		
GWP/GWPS	0504-22/2	400 3~	2.2	4.8	40	22	
	0505-22/2	400 3~					
	0506-22/2	400 3~					
	0507-30/2	400 3~	3.0	6.4	62	12	
	0508-40/2	400 3~	4.0	8.4	63		
	0509-55/2	400 3~	5.5	11.1	81		
	0510-75/2	400 3~	7.5	14.9	83	22	
	0511-75/2	400 3~					
	0601-30/2	400 3~					3.0
	0602-40/2	400 3~	4.0	8.4	63	12	
	0603-55/2	400 3~	5.5	11.1	82		
	0604-75/2	400 3~	7.5	14.9	84		
	0605-75/2	400 3~					
	0801-15/2	400 3~				1.5	3.4
	0802-15/2	400 3~					
	0803-15/2	400 3~	1.5	3.4	38		
	0804-22/2	400 3~	2.2	4.8	40	12	
0805-22/2	400 3~						
0806-55/2	400 3~	5.5					11.1
0807-55/2	400 3~						
0808-75/2	400 3~		7.5	14.9	89.5		
0809-75/2	400 3~						

Technical data

Pump model	Pump designation	Rated voltage (V)	Power (kW)	Rated current (A)	Weight (kg)	Solid size (mm)	Discharge (mm)
GWP/GWPS	0810-110/2	400 3~	11.0	21.8	144	20	80
	0811-110/2	400 3~					
	0812-110/2	400 3~					
	0813-150/2	400 3~					
	0814-150/2	400 3~	15.0	29.3	155		
	0815-150/2	400 3~					
	0816-150/2	400 3~					
	1001-15/2	400 3~					
	1002-22/2	400 3~	1.5	3.4	40.5	12	
	1003-30/2	400 3~	2.2	4.8	42		
	1004-40/2	400 3~	3.0	6.4	66		
	1005-40/2	400 3~	4.0	8.4	68	40	
	1006-55/2	400 3~					
	1007-75/2	400 3~					
	1008-55/4	400 3~					
	1009-75/4	400 3~	5.5	11.1	88		
	1010-55/4	400 3~	7.5	14.9	94		
	1011-55/4	400 3~	5.5	11.7	147		
	1012-75/4	400 3~	7.5	15.5	157		
	1013-110/4	400 3~	11.0	22.6	212	32	100
	1014-110/4	400 3~					
	1015-150/4	400 3~					
	1016-150/4	400 3~					
	1017-185/4	400 3~	15.0	30.1	223	30	
1018-185/4	400 3~	15.0	30.1	238			
1501-40/4	400 3~	18.5	36.8	268			
1502-55/4	400 3~	4.0	9.1	110	60		
1503-55/4	400 3~						
1504-75/4	400 3~						
1505-110/4	400 3~						
1506-110/4	400 3~	5.5	11.7	116	70	150	
1507-150/4	400 3~	5.5	11.7	160			
1508-185/4	400 3~	7.5	15.5	170			
1509-220/4	400 3~	11.0	22.6	235	35		
2001-75/6	400 3~	11.0	22.6	238			
2002-110/4	400 3~	15.0	30.1	249			
2003-150/4	400 3~	18.5	36.8	272	80	200	
2004-185/4	400 3~	22.0	42.7	282			
2005-220/4	400 3~	7.5	17.1	182			
2501-110/6	400 3~	11.0	22.6	261	90	250	
2502-150/6	400 3~	15.0	30.1	272			
2503-185/6	400 3~	18.5	36.8	298			
2504-220/6	400 3~	22.0	42.7	308			
	2501-110/6	400 3~	11.0	24.8	313	90	250
	2502-150/6	400 3~	15.0	32.2	335		
	2503-185/6	400 3~	18.5	38.3	395		
	2504-220/6	400 3~	22.0	45	410		

Pump Model	Pump designation	Rated Voltage (V)	Power (kW)	Rated current (A)	Weight (kg)	Solid size (mm)	Discharge (mm)
GWPC	0501-15/2	400 3~	1.5	3.4	38	-	50
	0502-22/2	400 3~	2.2	4.8	41	-	
	0503-30/2	400 3~	3	6.4	62	-	
	0504-40/2	400 3~	4	8.4	66	-	
	0505-40/2	400 3~				-	
	1001-40/2	400 3~	4	8.4	71	-	100
	1002-55/2	400 3~	5.5	11.1	88	-	
	1003-75/2	400 3~	7.5	14.9	93	-	

Wet well installation with pedestal



Discharge	Material
DN50	EC/CR
DN65	EC/CR
DN80	EC/CR
DN100	EC/CR
DN 150	EC/CR
DN 200	EC/CR
DN 250	EC/CR

Discharge	Material
DN50	EC/CR
DN65	EC/CR
DN80	EC/CR
DN100	EC/CR
DN 150	EC/CR
DN 200	EC/CR
DN 250	EC/CR

Wet well installation with pedestal

Dimensions	GWP/GWPS										
	0501-0502	0503-0506	0507-0508	0509-0511	0601-0602	0603-0605	0801-0802	0803-0805	0806-0809	0810-0816	1001-1002
B1	235	205	250	280	250	280	205	216	265	295	205
L1	248	258	290	320	290	320	268	268	345	408	300
L3	600	600	600	600	600	600	650	650	650	650	650
H2	200	200	200	200	200	200	250	250	250	250	250
B4	70	70	70	70	70	70	98	98	98	98	120
B5	120	120	120	120	120	120	176	176	176	176	220
B6	80	80	80	80	80	80	100	100	100	100	100
L5	139	139	139	139	139	139	160	160	160	160	200
L6	166	166	166	166	166	166	232	232	232	232	290
L7	120	120	120	120	120	120	176	176	176	176	220
H3	650	770	770	770	770	770	770	770	820	1000	850
H4	168	168	168	168	168	168	196	196	196	196	245
H5	250	250	250	250	258	258	294	294	294	294	368
L4	80	80	80	80	80	80	100	100	100	100	100
L8	207	232	232	257	257	257	285	285	335	380	340
h min	80	80	80	80	80	80	100	100	100	100	100
a	25	25	25	25	25	25	25	25	25	25	25
b	200	200	200	200	219	219	244	244	244	244	305
Øk	32	32	32	32	32	32	32	32	32	32	38
E	700x350	700x350	700x350	700x350	700x350	700x350	900x550	900x550	900x550	900x550	900x550
d2x11 Chem. bolts	M16x190-304						M20x240-304				
Mx12 Explosive bolts	M10x100-304						M12x120-304				
PEDESTAL DISCHARGE FLANGE											
H1	510	576	576	576	635	775	576	593	790	925	593
D0	Ø50	Ø50	Ø50	Ø50	Ø65	Ø65	Ø80	Ø80	Ø80	Ø80	Ø100
D1	Ø110	Ø110	Ø110	Ø110	Ø130	Ø130	Ø150	Ø150	Ø150	Ø150	Ø170
D	Ø140	Ø140	Ø140	Ø140	Ø160	Ø160	Ø190	Ø190	Ø190	Ø190	Ø210
n1-d1	4-Ø14	4-Ø14	4-Ø14	4-Ø14	4-Ø14	4-Ø14	4-Ø18	4-Ø18	4-Ø18	4-Ø18	4-Ø18
θ	45	45	45	45	45	45	45	45	45	45	45

Wet well installation with pedestal

Dimensions	GWP/GWPS										
	1003-1005	1006-1007	1008-1012	1013-1015	1016	1017-1018	1501-1502	1503-1504	1505	1506-1507	1508-1509
B1	278	285	412	412	512	512	366	443	443	478	478
L1	345	361	480	492	593	593	477	573	573	619	619
L3	650	650	650	650	650	650	750	750	750	750	750
H2	250	250	250	250	250	250	300	300	300	300	300
B4	120	120	120	120	120	120	160	160	160	160	160
B5	220	220	220	220	220	220	240	240	240	240	240
B6	100	100	100	100	100	100	140	140	140	140	140
L5	200	200	200	200	200	200	210	210	210	210	210
L6	290	290	290	290	290	290	280	280	280	280	280
L7	220	220	220	220	220	220	220	220	220	220	220
H3	850	1035	1035	1035	1035	1035	1280	1280	1280	1280	1280
H4	245	245	245	245	245	245	255	255	255	255	255
H5	368	368	368	368	368	368	400	400	400	400	400
L4	100	100	100	100	100	100	90	90	90	90	90
L8	365	378	426	490	490	490	424	480	480	510	510
h min	100	100	100	100	100	100	150	150	150	150	150
a	25	25	25	25	25	25	30	30	30	30	30
b	305	305	305	305	305	305	340	340	340	340	340
Øk	38	35	38	38	38	38	38	38	38	38	38
E	900x550	900x550	900x550	900x550	900x550	900x550	900x600	900x600	900x600	900x600	900x600
d2x11 Chem. bolts	M24x280-304						M24x280-304				
Mx12 Explosive bolts	M12x120-304						M16x150-304				
PEDESTAL DISCHARGE FLANGE											
H1	667	807	835	963	985	1050	836	940	1050	985	1115
D0	Ø100	Ø100	Ø100	Ø100	Ø100	Ø100	Ø150	Ø150	Ø150	Ø150	Ø150
D1	Ø170	Ø170	Ø170	Ø170	Ø170	Ø170	Ø225	Ø225	Ø225	Ø225	Ø225
D	Ø210	Ø210	Ø210	Ø210	Ø210	Ø210	Ø265	Ø265	Ø265	Ø265	Ø265
n1-d1	4-Ø18	4-Ø18	4-Ø18	4-Ø18	4-Ø18	4-Ø18	8-Ø18	8-Ø18	8-Ø18	8-Ø18	8-Ø18
θ	45	45	45	45	45	45	22.5	22.5	22.5	22.5	22.5

Wet well installation with pedestal

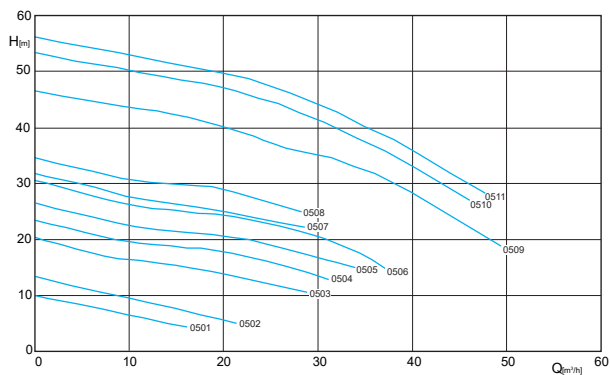
Dimensions	GWP				GWPC			
	2001	2002-2005	2501-2502	2503-2504	0501-0502	0503-0505	1001	1002-1003
B1	510	533	570	625	205	280	265	265
L1	610	690	750	782	258	320	345	345
L3	800	800	950	950	600	600	650	650
H2	350	350	350	350	200	200	250	250
B4	212	212	260	260	70	70	120	120
B5	390	390	420	420	120	120	220	220
B6	300	300	300	300	80	80	100	100
L5	347	347	394	394	139	139	200	200
L6	310	310	324	324	166	166	290	290
L7	365	365	360	360	120	120	220	220
H3	1280	1280	1300	1300	770	770	1035	1035
H4	195	195	225	225	168	168	245	245
H5	455	455	575	575	250	250	368	368
L4	235	235	235	235	80	80	100	100
L8	385	385	490	500	232	257	365	365
h min	200	200	200	200	80	80	100	100
a	50	50	50	50	25	25	25	25
b	365	365	425	425	200	200	305	305
Øk	46	46	46	46	32	32	38	38
E	1200x800	1200x800	1400x1000	1400x1000	700x350	700x350	900x500	900x500
d2x11 Chem. bolts	M24x280-304		M24x380-304		M16x190-304		M24x280-304	
Mx12 Explosive bolts	M20x200-304		M20x200-304		Mx10x100-304		M12x120-304	
PEDESTAL DISCHARGE FLANGE								
H1	980	1125	1140	1210	581	655	660	660
D0	Ø200	Ø200	Ø250	Ø250	Ø50	Ø50	Ø100	Ø100
D1	Ø295	Ø295	Ø350	Ø350	Ø110	Ø110	Ø170	Ø170
D	Ø340	Ø340	Ø395	Ø395	Ø140	Ø140	Ø210	Ø210
n1-d1	4-Ø22	8-Ø22	12-Ø22	12-Ø22	4-Ø14	4-Ø14	4-Ø18	4-Ø18
θ	22.5	22.5	15	15	45	45	45	45

Wet well transportable installation

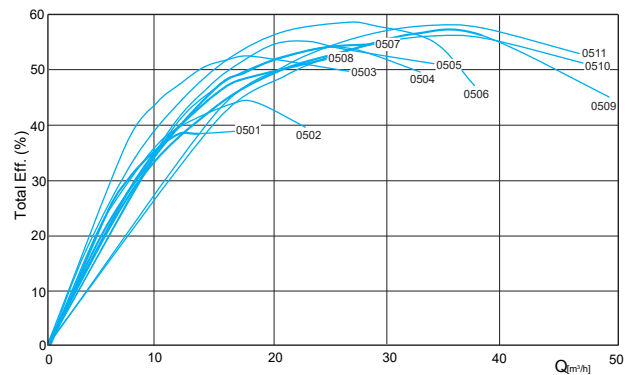
GWP/GWPS	Dimensions				
	DN	H	H1	ØB	L
0501-0502	50	510	420	235	335
0503-0506		576	420	205	345
0507-0508		635	450	205	375
0509-0511		775	550	275	400
0601-0602	65	635	450	205	385
0603-0605		775	550	275	410
0801-0802	80	576	420	205	432
0803-0805		593	420	205	432
0806-0809		790	560	235	510
0810-0816		925	650	250	570
1001-1002	100	593	420	205	470
1003-1005		667	500	260	518
1006-1007		807	570	270	533
1008-1012		835	620	380	653
1013-1015		936	660	380	665
1016		986	820	500	765
1017-1018		1050	820	500	765
1501-1502	150	986	900	350	830
1503-1504		940	730	350	790
1505		1050	810	350	790
1506-1507		985	860	440	836
1508-1509		1115	920	440	836
2001	200	1140	1000	440	1020
2002-2003		1125	1100	480	1100
2004-2005		1190	1200	480	1100
2501-2502	250	1400	1350	500	1010
2503-2504		1470	1420	500	1065
GWPC					
0501-0502	50	581	420	200	325
0503		655	420	255	405
0504-0505		655	470	255	405
1001	100	660	500	240	520
1002-1003		810	560	240	520

Performance field

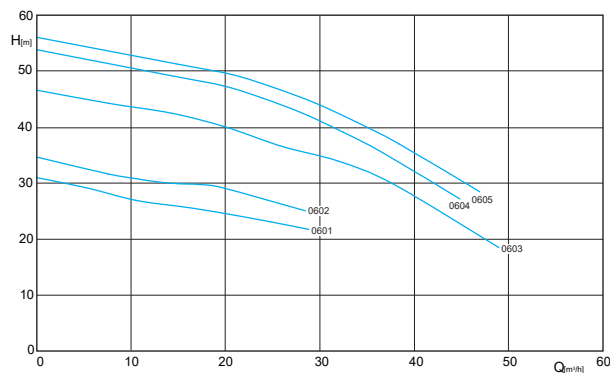
DN50 Head - flow



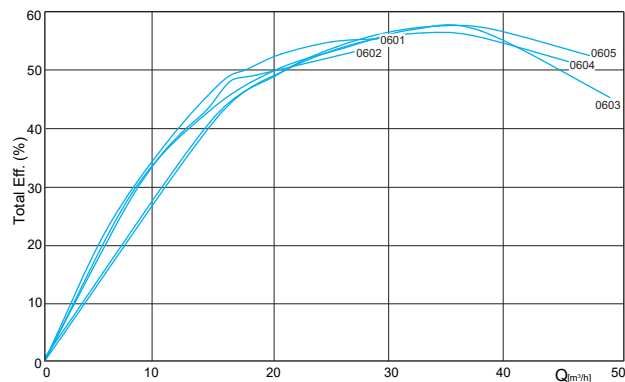
DN50 Efficiency - flow



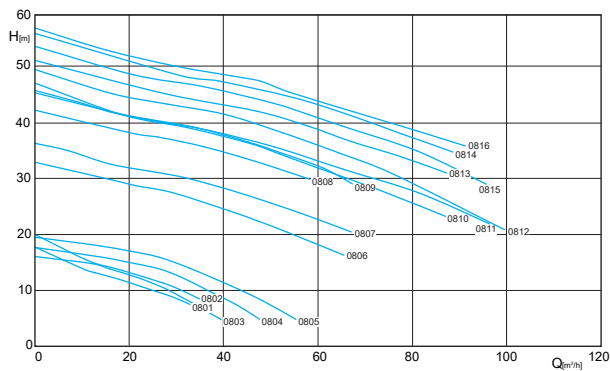
DN65 Head - flow



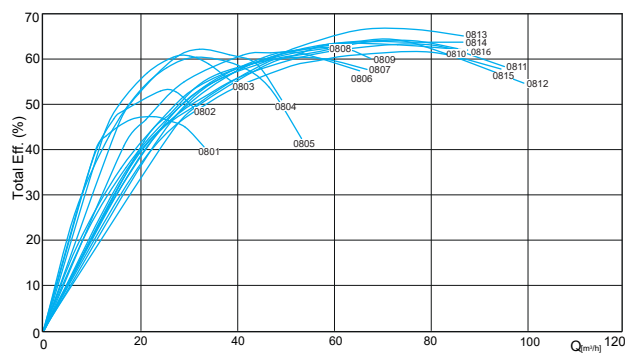
DN65 Efficiency - flow



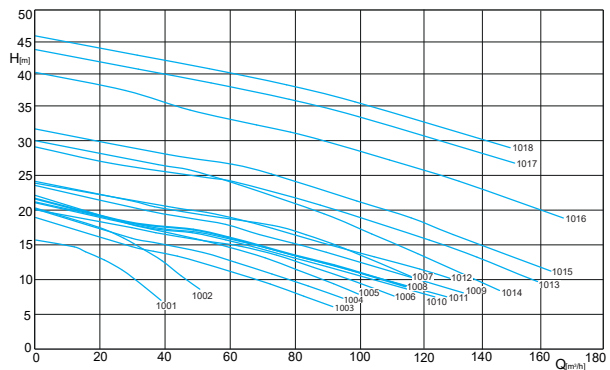
DN80 Head - flow



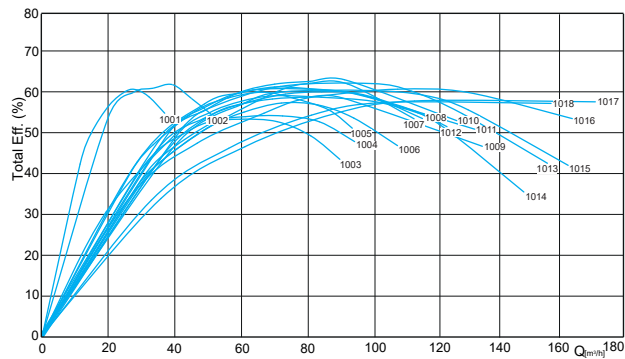
DN80 Efficiency - flow



DN100 Head - flow

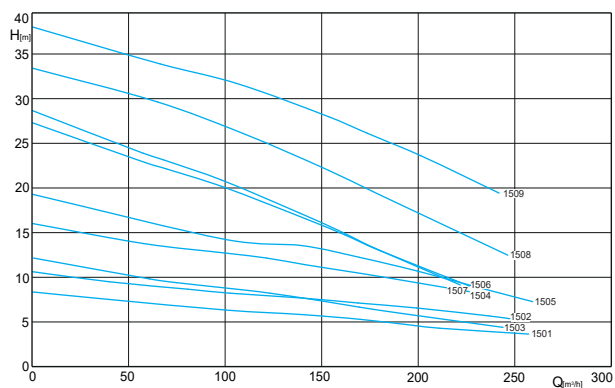


DN100 Efficiency - flow

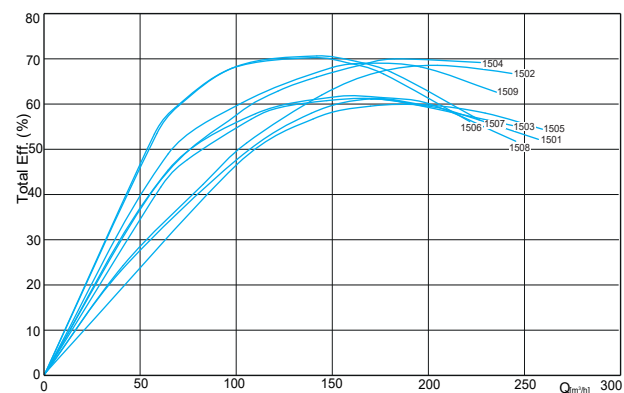


Performance field

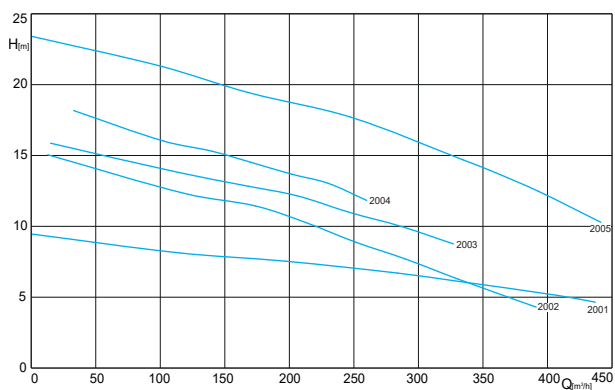
DN150 Head - flow



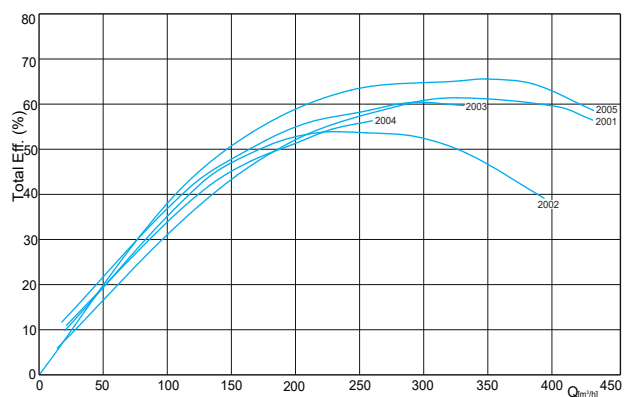
DN150 Efficiency - flow



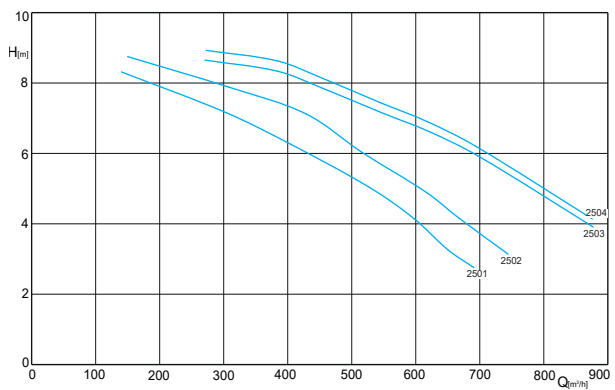
DN200 Head - flow



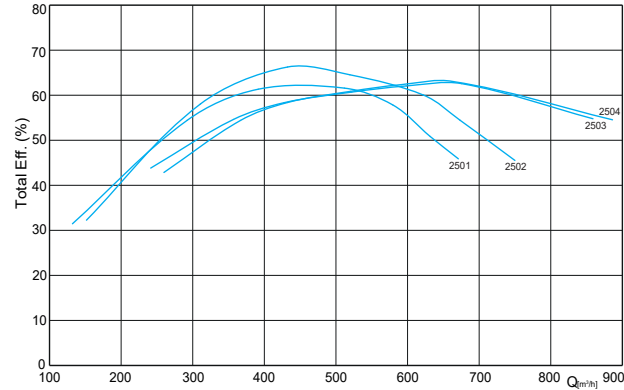
DN200 Efficiency - flow



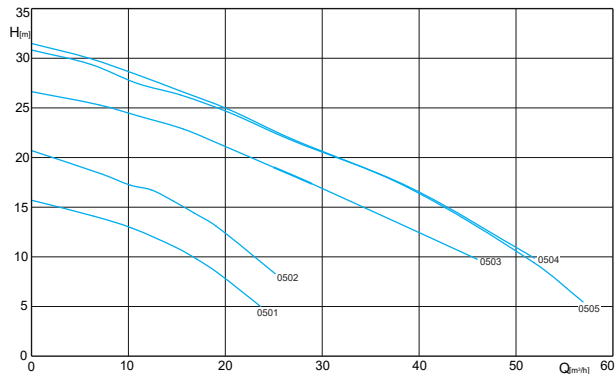
DN250 Head - flow



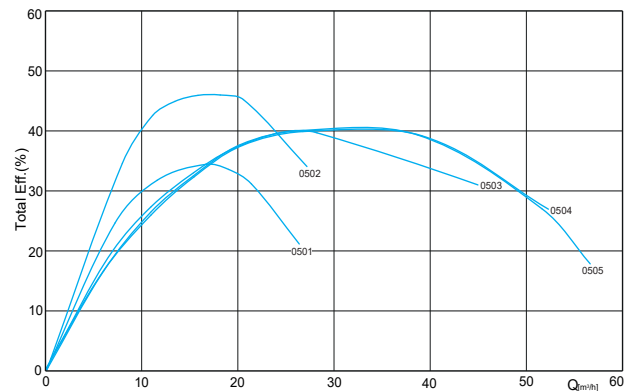
DN250 Efficiency - flow



GWPC DN50 Head - flow

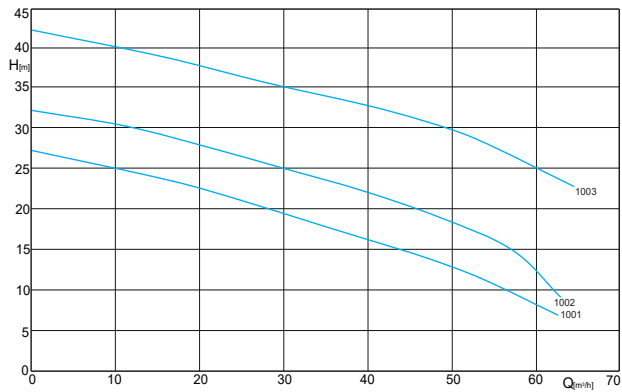


GWPC DN50 Efficiency - flow

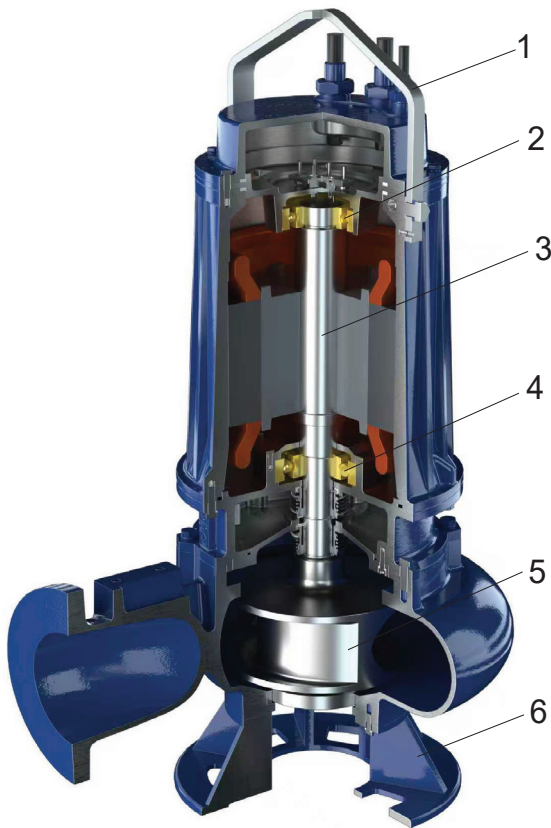
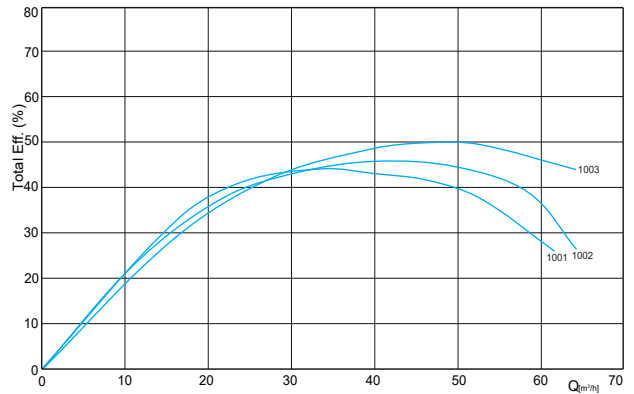


Performance field

GWPC DN100 Head - flow



GWPC DN100 Efficiency - flow



Design

1. Lifting hoop.
2. Upper bearing.
3. Rotorshaft.
4. Lower bearing.
5. Impeller.
6. Water inlet base.

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