

SPRINT GVM



Submersible Sewage and Drainage Pumps



SPRINT GVM
180/250



SPRINT GVM
450/750/1100/1500/1800/2200



SPRINT GVM 1101



SPRINT GVM
1501/1801/2201/2211

Materials

Component	Material
Pump casing	Cast iron GJL 200 EN 1561
Impeller	Cast iron GJL 200 EN 1561 / PPO-GF20 (Noryl)
Casing cover	Cast iron GJL 200 EN 1561
Motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Jacket cover	
Shaft	
Mechanical seal	Ceramic/Graphite or SiC/Graphite

Construction

The SPRINT GVM series pumps are designed with advanced vortex impellers, providing exceptional performance for heavy-duty sewage discharge. Their stainless steel casings offer superior durability, making them ideal for managing corrosive media. These pumps are optimized to handle larger debris and particles, ensuring reliable operation in sewage transportation and discharge.

When used for sewage applications, their reinforced bases enhance water output and support compatibility with various sewage systems.

For clean water pumping, the pumps incorporate a refined filtration system that extends their service life. This combination of efficiency, and versatility makes the SPRINT GVM Series pumps an outstanding choice for diverse applications.

Application

This range is ideal for a wide range of industries, including chemicals, petroleum, mining, cement, pharmaceuticals, paper, steel, power plants, coal processing, urban sewage treatment, municipal engineering, and construction sites.

These pumps are capable of handling both sewage containing particles and clean water. They are designed to pass debris with larger particle diameters, ensuring reliable performance in demanding applications.

Operating Conditions

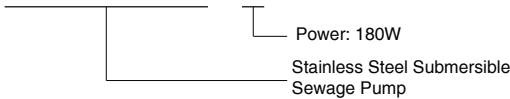
Ambient Temperature : Up to +40°C
Liquid Temperature : Up to +35°C
Maximum immersion depth: 5 m.

Motor

Single Phase 240 V, 50Hz
Cable: H05RN-F, 3G1 mm² (3G1.5 mm² for 1.1, 1.5 kW, 3G2.5 mm² for 1.8, 2.2 kW) , length 10 m with Australian plug.
With thermal protector and float switch.
Insulation Class B.
Protection IP X8.

Designation

SPRINT GVM 180



SPRINT GVM

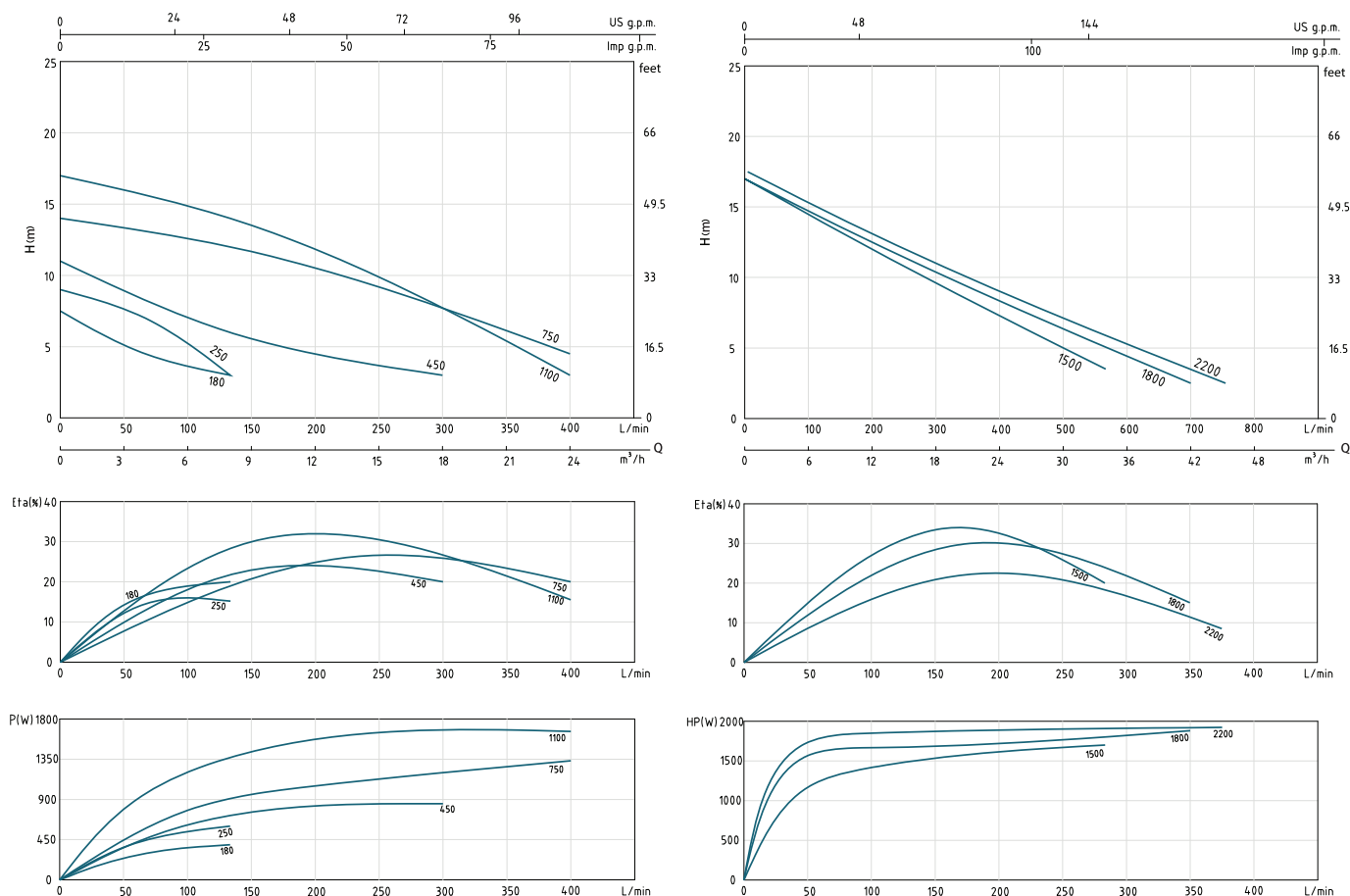


Submersible Sewage and Drainage Pumps

Performance $n \approx 2900$ rpm

MODEL	1~ 240 V		Capacitor		Max Particle Size mm	Q m ³ /h l/min	H (m)	0	3	8	12	15	18	21	24	30	34	42	46	47
	A	kW	HP	Vc	μF			0	50	133	200	250	300	350	400	500	567	700	767	783
SPRINT GVM 180	1.87	0.18	0.25	450	10	15	H (m)	7.5	5	2.8	-	-	-	-	-	-	-	-	-	-
SPRINT GVM 250	2.4	0.25	0.33	450	12	15		9	7.6	2.8	-	-	-	-	-	-	-	-	-	-
SPRINT GVM 450	4	0.45	0.6	450	15	15		11	9	6	4.5	3.6	3	-	-	-	-	-	-	-
SPRINT GVM 750	5.6	0.75	1	450	20	15		14	13.5	11.9	10.6	9	7.6	6	4.5	-	-	-	-	-
SPRINT GVM 1100	7.1	1.1	1.5	450	40	15		17	16	14	11.9	9.9	7.6	5.5	3	-	-	-	-	-
SPRINT GVM 1500	8.5	1.5	2	450	45	15		17	16	13.5	12	11	9.7	8.3	7.2	5	3.4	-	-	-
SPRINT GVM 1800	8.4	1.8	2.4	450	45	15		17	16	14	12.5	11.6	10.3	9.2	8.4	6.3	5	2.5	-	-
SPRINT GVM 2200	11.7	2.2	3	450	45	20		17.5	16.6	14.4	13.1	12.2	11	10	9	7.2	5.6	3.4	2.5	-
SPRINT GVM 1101	6.5	1.1	1.5	450	40	15		13	12.5	11.5	10	9	7.8	6	4.3	-	-	-	-	-
SPRINT GVM 1501	8	1.5	2	450	45	15		17.5	16	14	12.2	11	9.7	8.6	7.5	5	3.5	-	-	-
SPRINT GVM 1801	11.2	1.8	2.4	450	5	15		20	18.7	16	13.7	11.5	9.4	6.8	4	-	-	-	-	-
SPRINT GVM 2201	11.9	2.2	2.5	450	45	15		18	17	15.5	14.4	13.4	12.5	11.6	10.3	8.4	6.8	4	3.3	2.5
SPRINT GVM 2211	11.9	2.2	2.5	450	45	15		17	16	14.7	13.7	12.8	11.9	11	10	7.8	6.3	3.1	2.5	-

Characteristic curves $n \approx 2900$ rpm

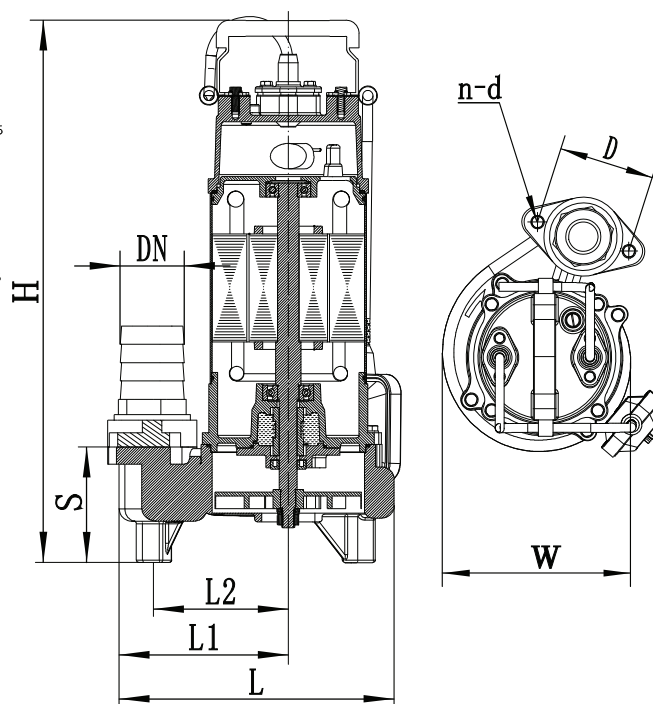
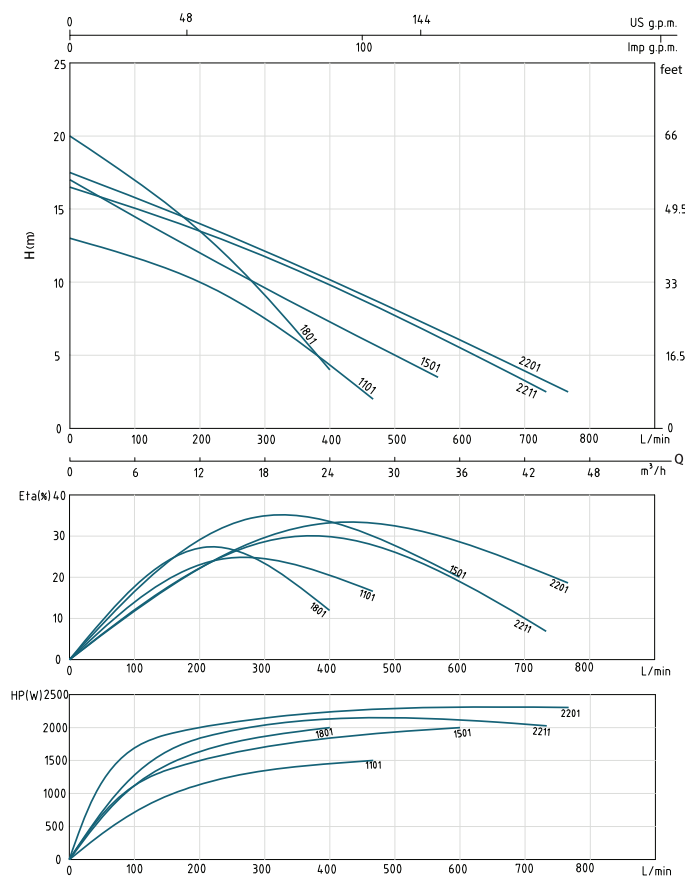


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Characteristic curves $n \approx 2900$ rpm



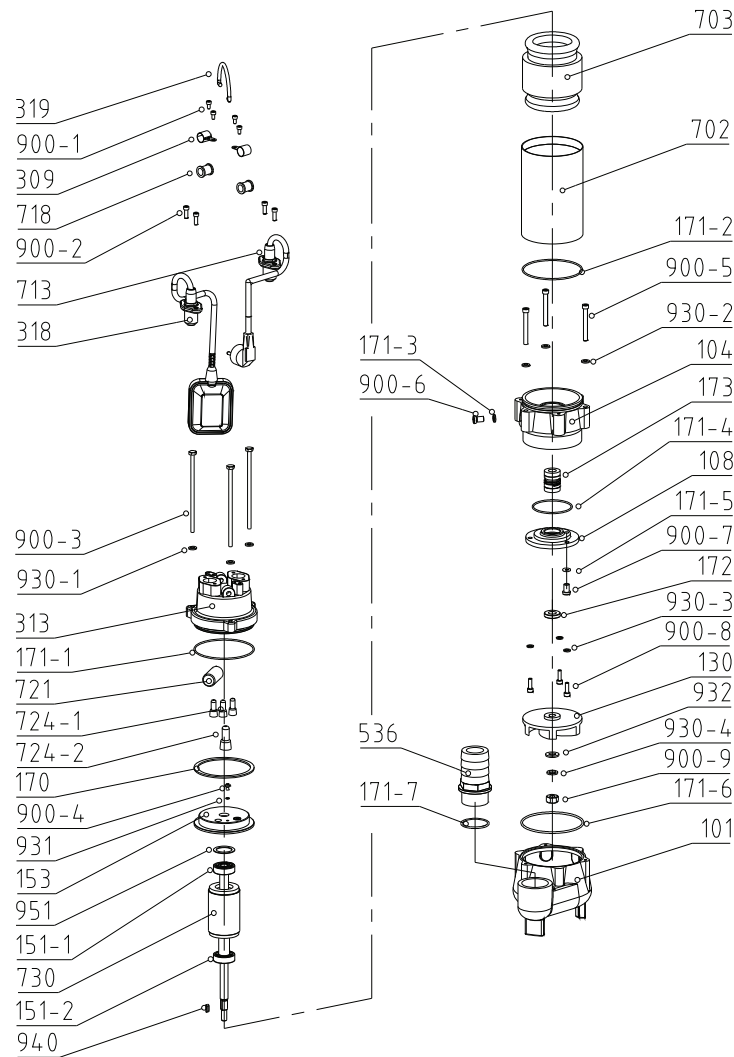
Dimensions and Weights

MODEL	H	W	L	L1	L2	S	D	DN	n-d	kg
	mm									
SPRINT GVM 180	370	120	168	106	80	82	-	1 1/2"	-	9.2
SPRINT GVM 250	370	120	168	106	80	92	-	1 1/2"	-	10
SPRINT GVM 450	426	160	168	147	113	91	85	2"	2-M6	15.4
SPRINT GVM 750	426	160	230	147	113	91	85	2"	2-M6	17.2
SPRINT GVM 1100	492	180	230	171	133	121	-	2"		20
SPRINT GVM 1500	522	176	281	165	130	165	-	2"		24.7
SPRINT GVM 1800	540	189	305	216	171	120	125	3"	2-M8	26.9
SPRINT GVM 2200	540	189	305	216	171	120	125	3"	2-M8	30
SPRINT GVM 1101	520	202	261	212	174	179	-	2"		21
SPRINT GVM 1501	522	176	257	165	130	165	-	2"		28
SPRINT GVM 1801	540	189	305	216	171	120	125	3"	2-M8	26.9
SPRINT GVM 2201	540	189	306	216	171	120	125	3"	2-M8	33
SPRINT GVM 2211	540	189	305	216	171	120	125	4"	2-M8	38

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Position Number	Position Description	Qty Per Pump	Position Number	Position Description	Qty Per Pump	Position Number	Position Description	Qty Per Pump
536	Outlet	1	900-6	Slotted Cylinder Head Screw	1	170	Gasket	1
101	Pump Body	1	171-3	O Ring	1	724-2	P-Type Crimp Cap	1
171-6	O Ring	1	104	Oil Chamber	1	724-1	P-Type Crimp Caps	3
171-7	O Ring	1	930-2	Spring Washers	3	721	Run Capacitor	1
900-9	Slotted Hexagon Nut	1	900-5	Hexagon Socket Head Cap Screw	3	171-1	O Ring	1
930-4	Spring Washer	1	171-2	O Ring	1	313	Top Cover	1
932	Flat Washer	1	702	Barrel	1	930-1	Spring Washers	3
130	Impeller	1	703	Stator Assembly	1	900-3	Hexagon Headed Bolts	3
900-8	Hexagon Socket Head Cap Screws	3	940	Key	1	318	Float Switch	1
930-3	Spring Washers	3	151-2	Deep Groove Ball Bearings	1	713	Cable	1
172	Skeleton Oil Seal	1	730	Cast Aluminum Rotor	1	900-2	Hexagon Socket Head Cap Screws	4
900-7	Slotted Cylinder Head Screw	1	151-1	Deep Groove Ball Bearings	1	718	Cable Sheaths	2
171-5	O Ring	1	951	Wave Washer	1	309	Cable Pressing Plates	2
108	Oil Chamber Cover	1	153	Upper Bearing Seat	1	900-1	Hexagon Socket Head Cap Screws	4
171-4	O Ring	1	931	External Tooth Lock Washer	1	319	Handle	1
173	Mechanical Seal	1	900-4	Crossed Recessed Round Head Screw with Washer	1			