



Water & Wastewater

# Flygt Self-priming pumps

Reliable dewatering and drainage solutions



*Engineered for life*

# Reliable pumping solutions for heavy-duty dewatering applications

As a solution provider, ITT Water & Wastewater has a wide range of extremely versatile self-priming pumps for all applications connected with drainage, dewatering or lowering of the water table.

Our extensive offer of robust self-priming pumps ensures that you can always find a reliable solution for all heavy-duty dewatering applications, whether you intend to dewater sites or drain excavations, submerged sites or flooded land. All our self-priming pumps are easy to transport and therefore excellent to use anywhere you need to move water-based liquids



*Construction site dewatering*

## **Typical applications include:**

- Civil engineering and construction site dewatering
- Ground working
- Temporary and emergency dewatering
- Mine and quarry pumping
- Screened sewage over-pumping/bypass operations

## **A range to suit your needs**

We offer a range of models from 2" to 10" that use different types of engines and can be mounted on trailers or on skids according to your needs.

To meet any noise limitation requirements, our pumps come in optional super-silent sound-attenuated models \*. They have high quality, easy access covers for both engine and pump service. Engine-silenced models are also available

Our wide range is the result of more than 30 years of experience in dewatering and lowering water table levels, worldwide.



*Wellpoint Vacuum dewatering*

## **Features and benefits:**

- Reliable, robust and efficient solutions of the highest quality
- Extremely versatile products for general drainage use and lowering water table levels
- Wide range of formats: diesel, petrol or electric powered units, skid- or wheel-mounted
- High hydraulic efficiency
- Reduced noise levels – super-silenced models available. \* 63dB (A) at 7 metres
- Environmentally friendly solutions
- Low maintenance

# Self-priming pumps for general dewatering

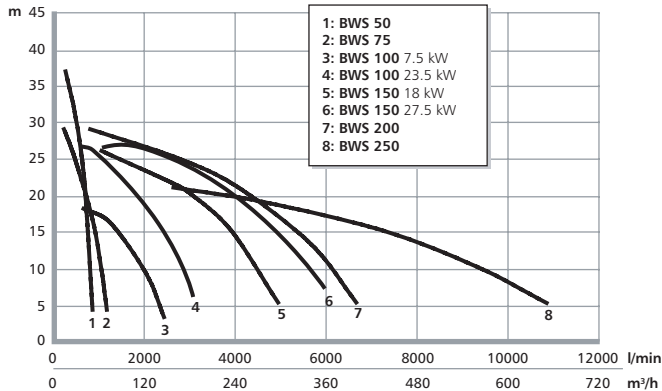
## BWS series

The Flygt BWS series of pumps are designed for excellent mechanical resistance and uninterrupted pumping under the toughest conditions. The shaft and seal are dimensioned for extra heavy duty.

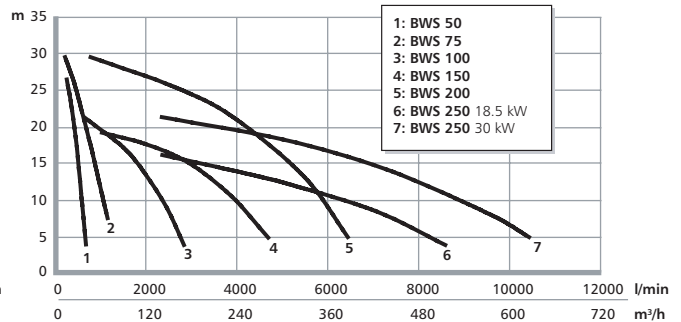
This makes them highly suitable for drainage applications where high reliability is paramount. The pumps' outstanding wear resistance is achieved through well-dimensioned material in places exposed to the elements, and by running the pump at low speed. The pump is also self-priming and it does not need a foot valve or an additional vacuum pump.



### BWS Diesel/Petrol



### BWS Electrical



Diesel/Petrol	BWS 50	BWS 50	BWS 75	BWS 75	BWS 100*	BWS 150*	BWS 200	BWS 250*
Discharge diam. (mm/inch")	50 (2")	50 (2")	80 (3")	80 (3")	120 (4")	150 (6")	200 (8")	250 (10")
Rated power (kW)	4.1	3.7	4.7	5	7.5/23.5	18.4/27.5	27.5	36
Weight (kg)	68	41	145	124	340/527	780/847	847	1129
Length (m)	0.87	0.85	0.95	0.95	0.95/1.30	1.65	1.65	1.65
Width (m)	0.60	0.45	0.60	0.60	0.85/1.12	1.35	1.35	1.35
Height (m)	0.70	0.64	0.80	0.80	1.05/1.33	1.55	1.55	1.60
Supply	Diesel	Petrol	Diesel	Petrol	Diesel	Diesel	Diesel	Diesel

Electric	BWS 50	BWS 50	BWS 75	BWS 100	BWS 150*	BWS 200	BWS 250*
Discharge diam. (mm/inch")	50 (2")	50 (2")	80 (3")	120 (4")	150 (6")	200 (8")	250 (10")
Rated power (kW)	2.2	2.2	4.0	7.5	11	30	18.5/30
Weight (kg)	39	39	115	255	541	608	843/889
Length (m)	0.85	0.85	0.95	0.95	1.40	1.40	1.60
Width (m)	0.45	0.45	0.60	0.83	1.05	1.05	1.35
Height (m)	0.64	0.64	0.80	1.05/1.33	1.26	1.26	1.60
Supply	1~	3~	3~	3~	3~	3~	3~

1~ = 1-phase  
230V 50 Hz  
3~ = 3-phase  
400V 50 Hz

\* Other performances levels on request.

# Centrifugal self-priming, vacuum-assisted pumps

## BWV series

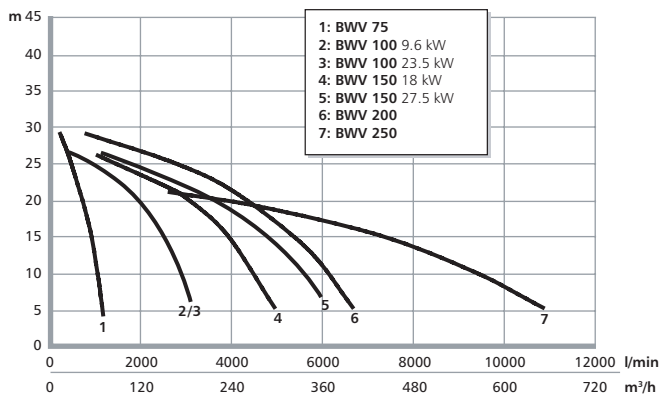
The Flygt BWV range is based on the self priming pump but is also equipped with a vacuum pump to guarantee extremely rapid and continuous priming of water with considerable percentages of air.

This makes our BWV pumps ideally suited for lowering groundwater, or for any application where rapid priming is required.

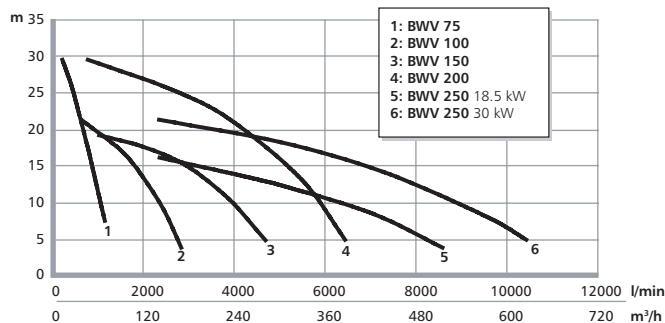
For reliable function, the discharge valve is a non-floating rubber sphere which is less prone to clogging. The vacuum pump, with closed-circuit oil lubrication, has proven its reliability over decades.



### BWV Diesel



### BWV Electrical



Diesel	BWV 75	BWV 100*	BWV 150*	BWV 200	BWV 250*
Discharge diam. (mm/inch <sup>2</sup> )	80 (3 <sup>1</sup> / <sub>2</sub> )	120 (4 <sup>1</sup> / <sub>2</sub> )	150 (6 <sup>1</sup> / <sub>2</sub> )	200 (8 <sup>1</sup> / <sub>2</sub> )	250 (10 <sup>1</sup> / <sub>2</sub> )
Rated power (kW)	5.8	9.6/23.5	18.4/27.5	27.5	36
Weight (kg)	270	450/580	929/1036	1036	1373
Length (m)	0.95	1.30	1.65	1.65	1.65
Width (m)	0.85	1.10/1.15	1.35	1.35	1.35
Height (m)	1.20	1.4/1.50	1.72/1.82	1.82	1.82
Supply	Diesel	Diesel	Diesel	Diesel	Diesel

Electric	BWV 75	BWV 100	BWV 150*	BWV 200	BWV 250*
Discharge diam. (mm/inch <sup>2</sup> )	80 (3 <sup>1</sup> / <sub>2</sub> )	120 (4 <sup>1</sup> / <sub>2</sub> )	150 (6 <sup>1</sup> / <sub>2</sub> )	200 (8 <sup>1</sup> / <sub>2</sub> )	250 (10 <sup>1</sup> / <sub>2</sub> )
Rated power (kW)	5.5	7.5	11	30	18.5/30
Weight (kg)	215	340	615	713	985/1006
Length (m)	0.75	1.12	1.40	1.40	1.60
Width (m)	0.90	0.85	1.05	1.05	1.35
Height (m)	1.15	1.30	1.71	1.71	1.82
Supply	3~	3~	3~	3~	3~

3~ = 3-phase  
400V 50 Hz

\* Other performances levels on request.

# Diaphragm pumps

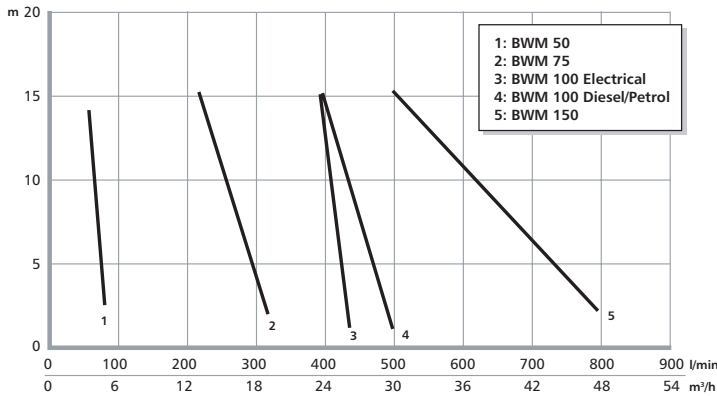
## BWM series

The Flygt diaphragm pumps in the BWM range are all-purpose self-priming pumps specially designed for around-the-clock operation.

They require neither foot valves nor initial priming with water, and can be used for pumping any type of liquid, even if it contains large solids, sludge, etc. The standard version is made of high strength corrosion resistant aluminium, but for corrosive pumping applications these pumps are also available in cast iron or stainless steel on request. The BWM range of pumps are delivered on a base frame mounted on a trolley or skid.



BWM Diesel/Petrol/Electric



Diesel/Petrol	BWM 50	BWM 75	BWM 75	BWM 100	BWM 100	BWM 150
Discharge diam. (mm/inch")	60 (2")	80 (3")	80 (3")	100 (4")	100 (4")	150 (6")
Rated power (kW)	3.3	2.8	3.6	7	6.6	5.0
Weight (kg)	33	140	127	177	141	300
Length (m)	1.08	0.95	1.23	0.91	1.15	1.43
Width (m)	0.42	0.84	0.68	0.86	0.80	1.17
Height (m)	0.41	0.79	0.64	0.98	0.89	1.05
Supply	Petrol	Diesel	Petrol	Diesel	Petrol	Diesel

Electric	BWM 50	BWM 50	BWM 75	BWM 100
Discharge diam.(mm/inch")	60 (2")	60 (2")	80 (3")	100 (4")
Rated power (kW)	0.37	0.37	1.5	3
Weight (kg)	27	27	85	105
Length (m)	1.08	1.08	1.23	0.91
Width (m)	0.42	0.42	0.92	0.86
Height (m)	0.41	0.41	0.64	0.84
Supply	1~	3~	3~	3~

1~ = 1-phase  
230V 50 Hz  
3~ = 3-phase  
400V 50 Hz

# Self-priming pumps for general and emergency services dewatering

## BWJ, BWL and BWF series

This range of Self-priming diesel engine driven pumps is used for ground dewatering, Wellpoint jetting operations (BWJ) and any water-handling operations where electric power is not always available. Electric versions are also available on request.

Pumping of water with sand and gravel is possible due to the pumps robustness and large impeller throughlet.

BWF is a specifically designed version for use at emergency services and by fire brigades.



BWF Fire brigade pump

Diesel	BWJ	BWL	BWF
Discharge diam. (mm/inch")	50 (2") to 80 (3.15")	40 (1.6") to 200 (8")	100 (4")
Rated power (kW)	6.8 to 36	4.5 to 49	22
Max head (m) and Flow (l/min)	50/1100	52/11200	36/3050

Electric	BWL
Discharge diam. (mm/inch")	40 (1.6") to 200 (8")
Rated power (kW)	1.1 to 30
Max head (m) and Flow (l/min)	60/8400

# Super-silent vacuum assisted, solids handling and sewage By-pass pumps

## DWV & NWV series

The Flygt DWV and NWV pump range is equipped with vortex centrifugal impellers to give trouble-free operation thanks to their large throughlet capacity. The technical characteristics of these pumps allow for continuous operation. Level-regulator equipment can be connected if required.

A large capacity double plated diesel fuel tank, for extra environmental security, gives long unattended running time.

To meet any noise limitation requirements, our pumps come in optional super-silent sound-attenuated models, i.e. 63dB (A) at 7 metres

This makes them suitable for use in residential areas or where low sound emissions are required.

All components are easily accessed through the side doors and top-hatches for quick inspection and maintenance of the pump end, engine parts and accessories etc

The NWV range is equipped with tough NiHard impellers for extra wear resistance.

Diesel driven *	DWV	NWV
Discharge diam. (mm/inch")	80 (3.15") to 200 (8")	100 (4") to 150 (6")
Rated power (kW)	10.2 to 49	18.4 to 36
Max head (m) and Flow (l/min)	24/8250	27/3900

Electric	DWV	NWV
Discharge diam. (mm/inch")	80 (3.15") to 200 (8")	100 (4") to 150 (6")
Rated power (kW)	7.5 to 45	15 to 30
Max head (m) and Flow (l/min)	23/7800	26/7500

* Super-Silent versions only	DWV	NWV
Discharge diam. (mm/inch")	80 (3.15") to 150 (6")	100 (4") to 150 (6")
Rated power (kW)	13 to 29	20.4 to 29.8
Max head (m) and Flow (l/min)	24/4600	21/6950



DWV Sewage by-pass pump

# Accessories

The versatility and reliability of self-priming pumps from ITT Water & Wastewater is further enhanced by a wide range of options and accessories designed to simplify installation and operation. We don't just make pumps – we provide a complete solution or system to suit your needs.

These accessories include everything from hoses for both suction and discharge, pipes, strainers up to complete wellpoint systems including drills and jetting pumps. Contact your local Flygt authorized dealer for more information.



*Wellpoint*



*Hoses with fitted strainer*

## Worldwide service network

With a network of suppliers and service centres distributed throughout more than 140 countries, ITT Water & Wastewater can offer you the support and service you require.

The level of maintenance and support that you require from your local service partner will differ according to your situation. With us you can choose the type of support package that meets your specific needs.

From simply supplying products to your specifications, to full service assistance with system planning, design, installation, operation and/or maintenance – Our total service offering matches your requirements.

### **10-year spare part availability**

We guarantee the availability of spare parts for a minimum of 10 years after we stop production of a pump model. This is just one example of ITT Water & Wastewater's long-term commitment to its customers.





### What can ITT Water & Wastewater do for you?

Integrated solutions for fluid handling are offered by ITT Water & Wastewater as a world leader in transport and treatment of wastewater. We provide a complete range of water, wastewater and drainage pumps, equipment for monitoring and control, units for primary and secondary biological treatment, products for filtration and disinfection, and related services. ITT Water & Wastewater, headquartered in Sweden, operates in some 140 countries across the world, with own plants in Europe, China and North and South America. The company is wholly owned by the ITT Corporation of White Plains, New York, supplier of advanced technology products and services.

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