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## OVERVIEW

HydroSpin Monitoring Solutions Ltd. provides proprietary hydro generator systems that generate energy from the water flow within pipes to operate monitoring and control systems along the water distribution network.

HydroSpin 3" SWING 10W hydro-power generator generates up to 10 Watt of power from the flow within water distribution pipes. The energy generated is suitable to support a wide range of applications such as flow and pressure instruments, 24/7 communication systems, dynamic pressure control systems, water quality analyzers, and data loggers.

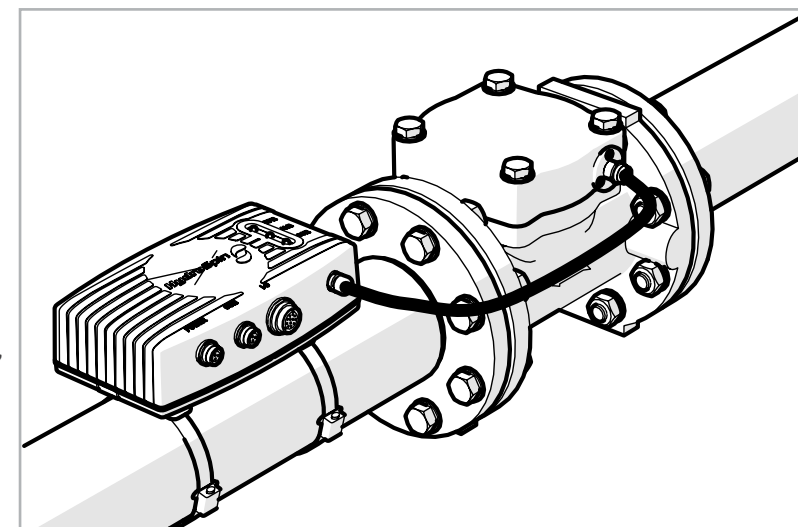
HydroSpin 3" SWING 10W is a standalone unit, easily integrated with any DN80 (3") pipe along the water distribution network, and designed for minimal head loss by implementing its proprietary swing mechanism.

HydroSpin 3" SWING 10W kit includes:

- Hydro-generator
- HydroCharger
- Internal rechargeable battery

## FEATURES

- Patented wet generator and proprietary charging units
- Provides power 24/7 for monitoring and control instrumentations
- Suitable for drinking water distribution pipes
- Maximal power generation 10 Watt
- Minimal water head loss
- Standalone wafer unit, easily installed on any DN80 (3") pipe
- Includes proprietary swing mechanism for maintaining low head loss any time
- Certification – NSF 61, WRAS



## ADVANTAGES

HydroSpin 3" SWING 10W series enables 24/7 power availability to all monitoring and control systems, anywhere along the water distribution network.

HydroSpin 3" SWING 10W Hydro-Generator is a reliable power source replacing batteries, alternative power sources, and costly electrical connections, turning any water distribution network to a smart water network, through a simple and cost effective installation. HydroSpin 3" (DN80) SWING 10W supports:

- Dynamic pressure control systems
- Flow and Pressure instrumentations
- Communication systems
- Water quality analyzers
- 24/7 data transmission
- Data Loggers

**CONTACT US:**

Hydrospin Monitoring  
Solutions  
8 Hazoran St.  
Netanya, Israel

Tel: +972-74-7136666  
Fax: +972-4-6709014

Email: [info@h-spin.com](mailto:info@h-spin.com)  
<http://www.h-spin.com>

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## SPECIFICATIONS

### HYDRAULIC

Minimum water velocity	0.21 m/s
Maximum water velocity	5 m/s
Water quality	Drinking water

### MECHANICAL

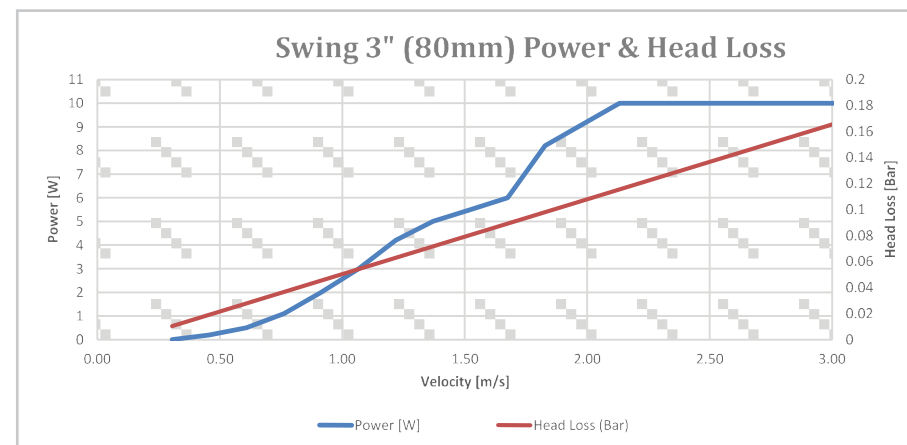
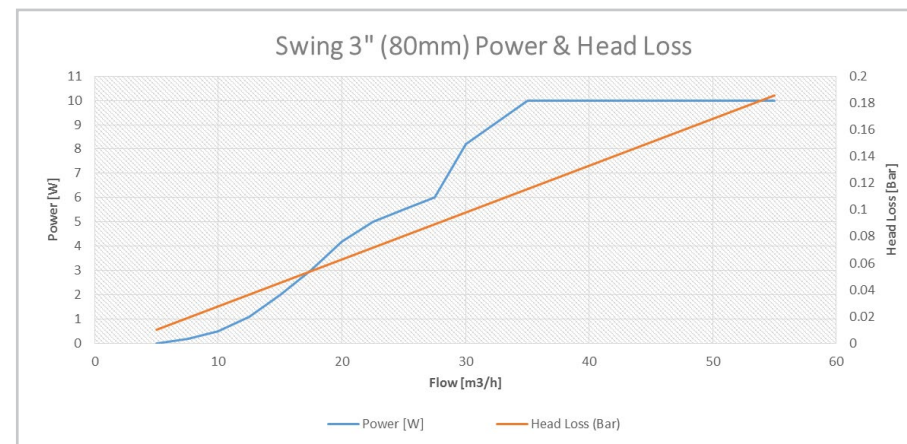
Plastic materials	Nylon 33% (NSF 61)
Pressure class	PN16
Fitting	ISO/BS
Environmental protection	IP68

### ELECTRICAL

Generator outcome power	3 Phase AC (3-70VAC)
HydroCharger output volts	8/12/24 VDC
HydroCharger output watts	Up to 10 Watts (Vs flow)
Reverse flow	30% less power
Maximum external load	500mA (@24VDC)
Operated temperature	-20°C – 70°C
Internal rechargeable battery	Li-Ion 5.3AH (8.2V)
Typical duration without charge	48 hr (100mA const.)
HydroCharger internal consumption	5mA

### COMMUNICATION PARAMETERS

Communication port	RS232
Protocol	Modbus RTU
Port baud rate	9600 [8,n,1]
Digital outputs	RPM, Alarm
Data logger	RPM, Battery Voltage, Generator Power, External Load (mA)



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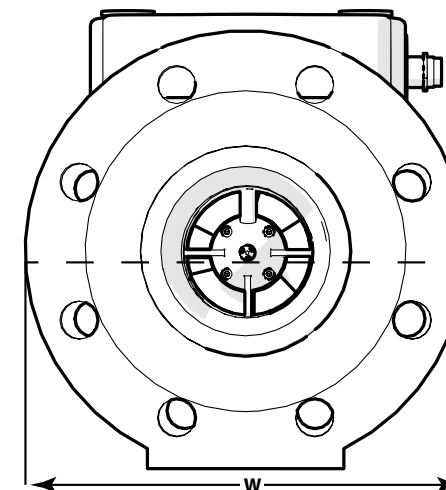
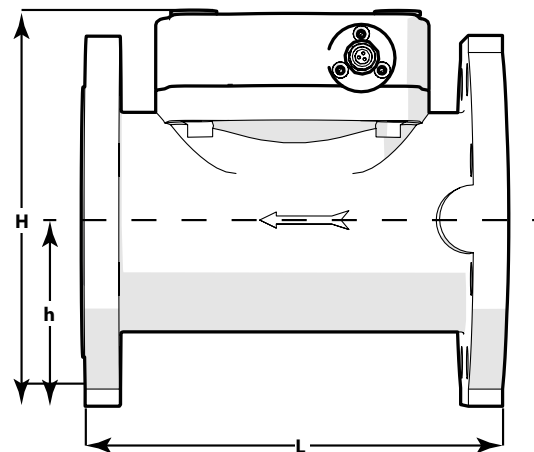
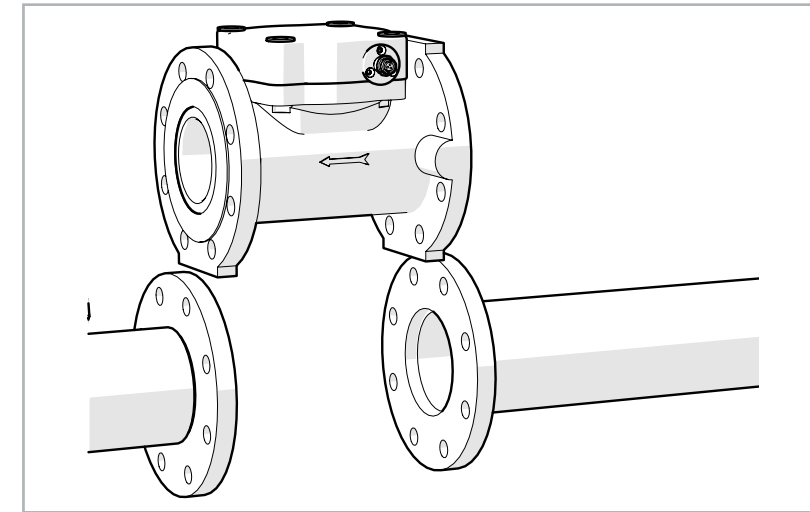
MECHANICAL INTERFACE

**STANDARDS**

**Water standards** NSF 61, WRAS

**MECHANICAL INTERFACE**

<b>Nominal size (mm)</b>	80
<b>L - Length (mm)</b>	225
<b>W - Width (mm)</b>	200
<b>H - Height (mm)</b>	210
<b>h - Height (mm)</b>	90
<b>Weight (kg)</b>	15.5



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All specifications are subject to  
change without notice  
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