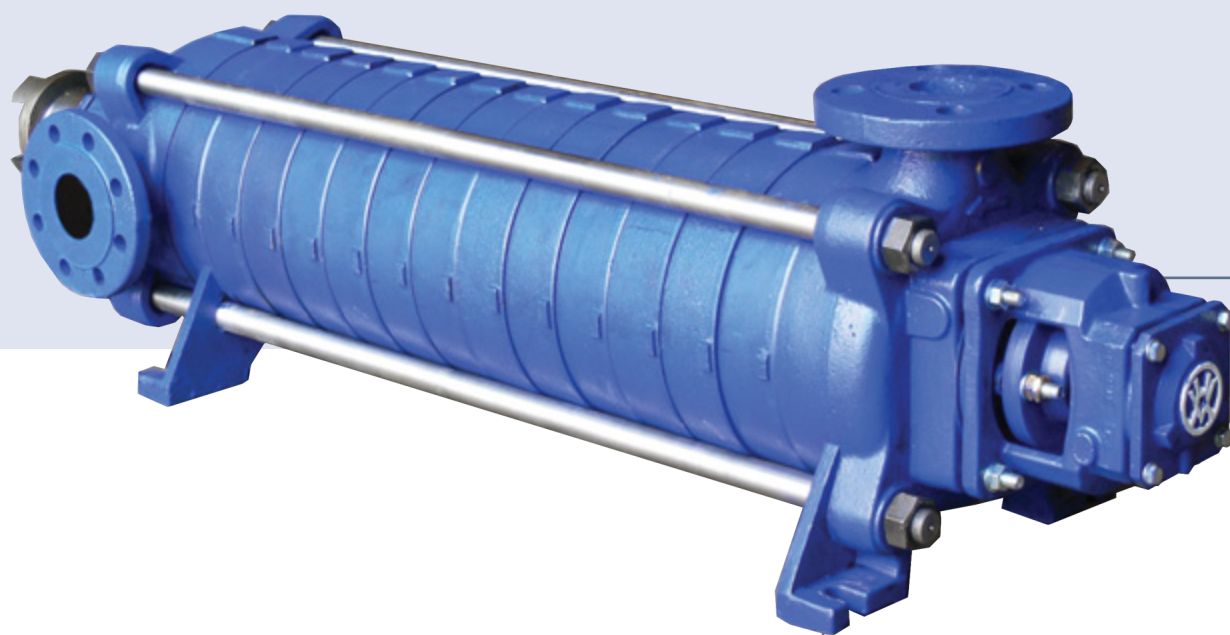


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**WHA** multistage rotodynamic pumps

## WHA multistage rotodynamic pumps

**WHA horizontal multistage pumps** are designed for pumping water at temperatures of up to 140°C as well as liquid fuels and other liquids within the resistance of materials used for their construction.

### Application

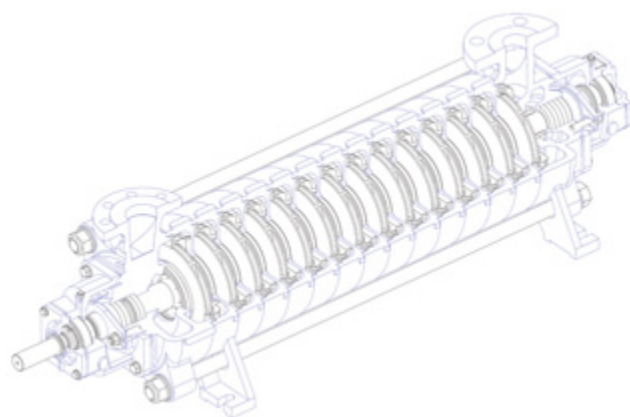
- ✓ Power industry – boiler feedwater, hot water condensate,
- ✓ Industrial, pressure boosting and extinguishing systems,
- ✓ Utility, municipal and drinking water systems,
- ✓ Distillate, solvents, fuels (including LPG) pumping stations,
- ✓ Irrigation and snow making systems,
- ✓ Filtration and reverse osmosis systems,
- ✓ High pressure washing stands and washers.

### Advantages

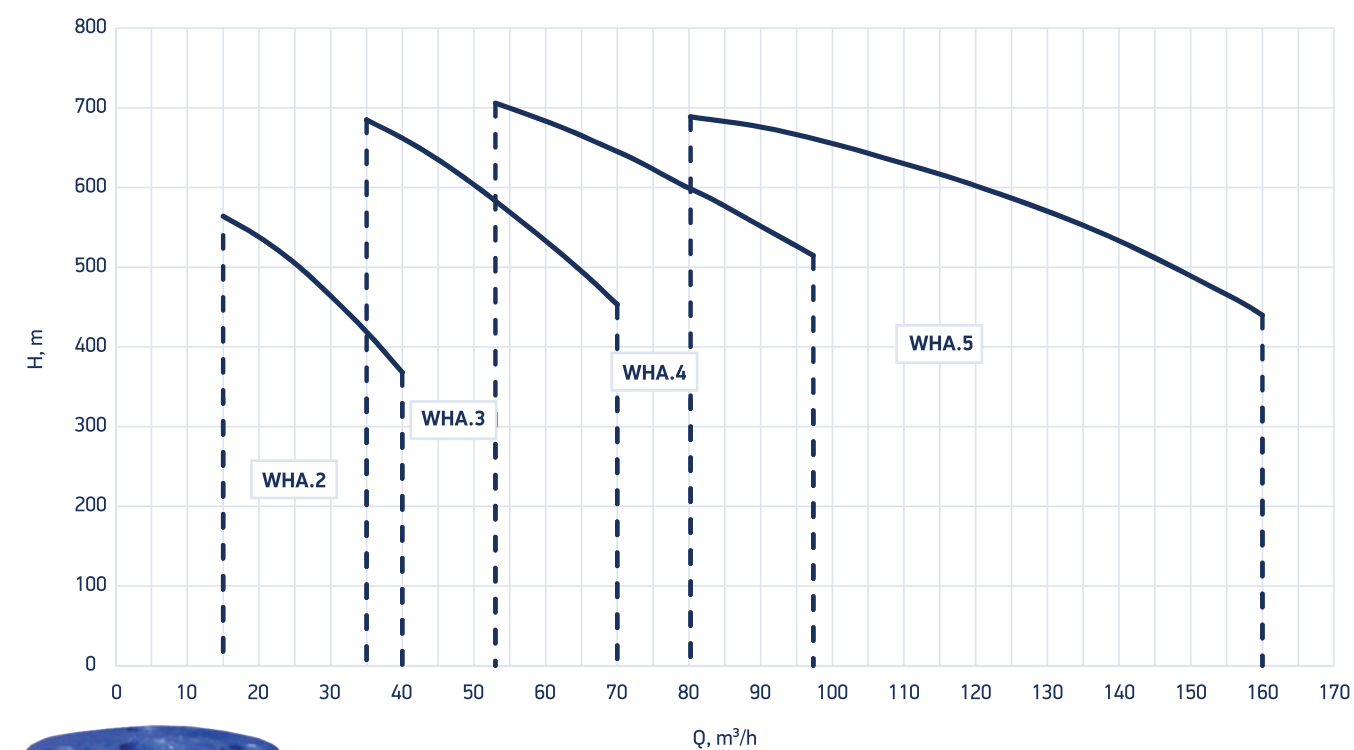
- ✓ High efficiency,
- ✓ Good anti-cavitation properties,
- ✓ Simple design,
- ✓ Possibility of changing the angle of the suction port,
- ✓ Application of shaft protection sleeves and replaceable wear rings.

### Design

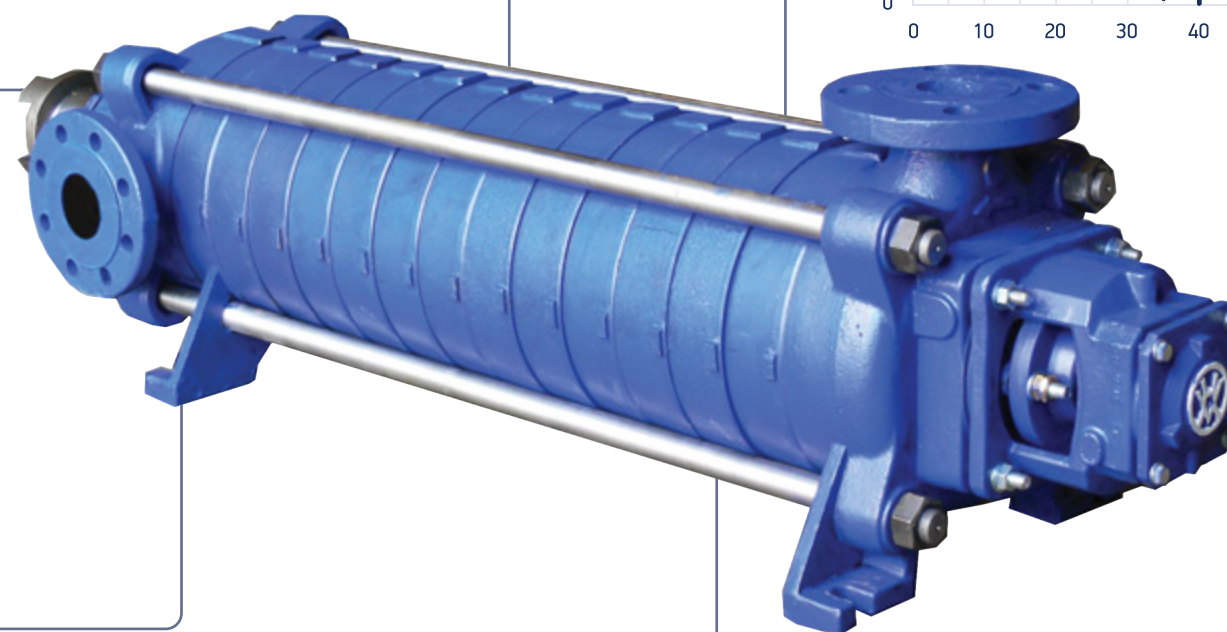
- ✓ WHA pumps are horizontal, rotodynamic pumps with multistage construction,
- ✓ Discharge flange directed upwards, suction flange can be installed in 90° angle steps,
- ✓ The first pump stage is equipped with a special impeller with increased anti-cavitation properties,
- ✓ Pump impellers are sealed with replaceable wear rings,
- ✓ Pump shaft is protected with protection sleeves and sealed with packing cord or mechanical face seals,
- ✓ Axial forces are reduced by pressure relief holes,
- ✓ High pressure in the discharge gland is reduced by special system of pressure throttling, which significantly reduces the seal load,
- ✓ Material execution: cast iron, bronze, cast steel.



## Operation fields



Pump size	Suction flange	Discharge flange	Q	H <sub>max</sub>
	mm	mm	m³/h	m
WHA.2	DN 50	DN 40	15-40	540
WHA.3	DN 65	DN 50	35-70	685
WHA.4	DN 80	DN 65	55-95	700
WHA.5	DN 100	DN 80	80-160	690

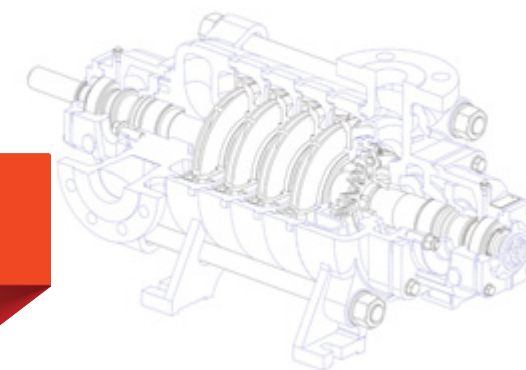


## WHS multistage **self-priming** rotodynamic pumps

WHS horizontal multistage pumps with self-priming member, are designed for pumping water at temperatures up to 70°C as well as liquid fuels and other liquids within the resistance of the materials used in their construction.

WHS pumps are special extension of the WHA pump design, with an additional circulating-vacuum member after last stage. This solution allows for sucking out of gas from the working space of the pump and suction installation without necessity of application of additional water priming systems.

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+48 56 46 25 955

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