



**GEYSER PUMP**



**WVG / WVIG / WVNG**

**Vertical Multistage Centrifugal Pump**



# GEYSER PUMP

Geyser pumps present Vertical Multistage Centrifugal Pumps. The range of Geyser Vertical Multistage Centrifugal Pumps covers :  
WVG series, AISI 304 pump material construction with Cast Iron Base  
WVIG series, AISI 304 pump material construction  
WVNG series, AISI 316 pump material construction  
WVG, WVIG, WVNG pumps have different pump sizes and various number of stages to provide the flow and pressure required.

The respective range series' coverage starts from : 1, 3, 5, 10, 15, 20, 32, 45, 64, 90. for the nominal flow from 1 m<sup>3</sup>/h up to 110 m<sup>3</sup>/h, for various pressures up to the maximum pressure of 30 bar.

The pumps are in line design, flange or with victaulic couplings port connection, the suction and discharge port of the base are on the same level with the same pipe dimensions. Stage construction : with stainless steel impellers, chambers and pressure casing. Pump stub shaft and motor shaft of the IEC standard motor are directly close coupled. Standard Electric motor driver : TEFC IP55 F Class Insulation, 50Hz, IEC Standard, vertical motor flange type B14, B5. All pumps are equipped with cartridge type mechanical seal for easy maintenance.

## Applications

### WATER SUPPLY AND PRESSURE BOOSTING

- Pressure boosting in buildings, hotels, residential complexes
- Pressure boosting stations, supply of water networks
- Pressure boosting for industrial water supply

### IRRIGATION AND AGRICULTURE

- Greenhouses
- Sprinkler irrigation
- Field irrigation (flooding)

### LIGHT INDUSTRY

- Washing and cleaning systems
- Car washing facilities
- Fire fighting systems
- Process water systems
- Machine tools (cooling lubricants)

### WATER TREATMENT

- Water softener and de-mineralization
- Reverse Osmosis systems
- Distillation systems
- Filtration
- Ultra-filtration systems

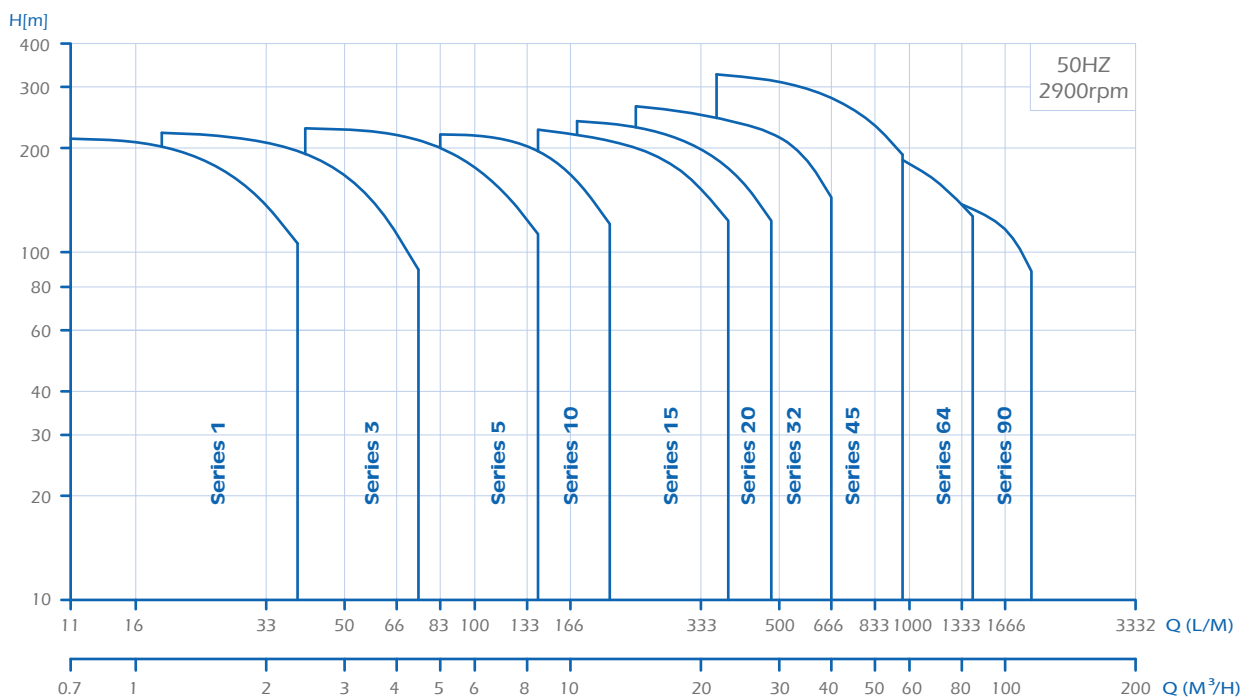
### HEATING, VENTILATION, AND AIR-CONDITIONING

- Boiler
- Induction heating
- Heat exchanger
- Refrigerators
- Cooling towers and systems
- Temperature control systems

## Features

- In line design
- High efficiency
- Reliability
- Easy maintenance
- Wide range

## Performance Range - WVG, WVIG, WVNG SERIES



All technical information is subject to change without notice.

The specifications below qualify the curves shown on the following pages.

- Tolerance according to ISO 9906 Annex A
- The curves refer to effective speed of asynchronous motors at 50 Hz
- Symbols :

Q = Volume Flow Rate  
H = Total Head  
P2 = Pump power input (shaft power)  
Eta = Pump efficiency  
NPSH = Net Positive Suction Head Required by the pump

## Pump Nameplate Information

GEYSER PUMP					
Model : WVG 5-11			Speed : 2900 rpm/50Hz		
TH (m) :	2.5	8.4	kW : 2.2		
Cap (m³/h) :	70	32	V : 220/380V/3Φ		
S/N : A110001-1/2			Weight : 39.6 kg		

### Identification Code

1. Geyser Pump Brand
2. Pump Type
3. Synchronous Speed
4. Head Range
5. Rated Power
6. Capacity
7. Voltage
8. Serial Number
9. Weight

WVG, WVIG, WVNG

5 - 11

Number of stages

Nominal flow (m³/h)

Pump Type

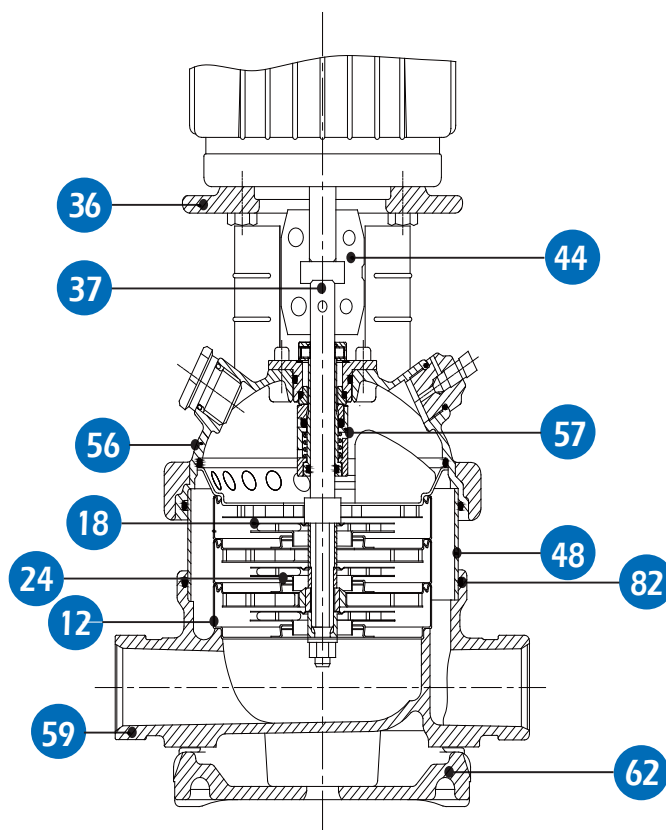
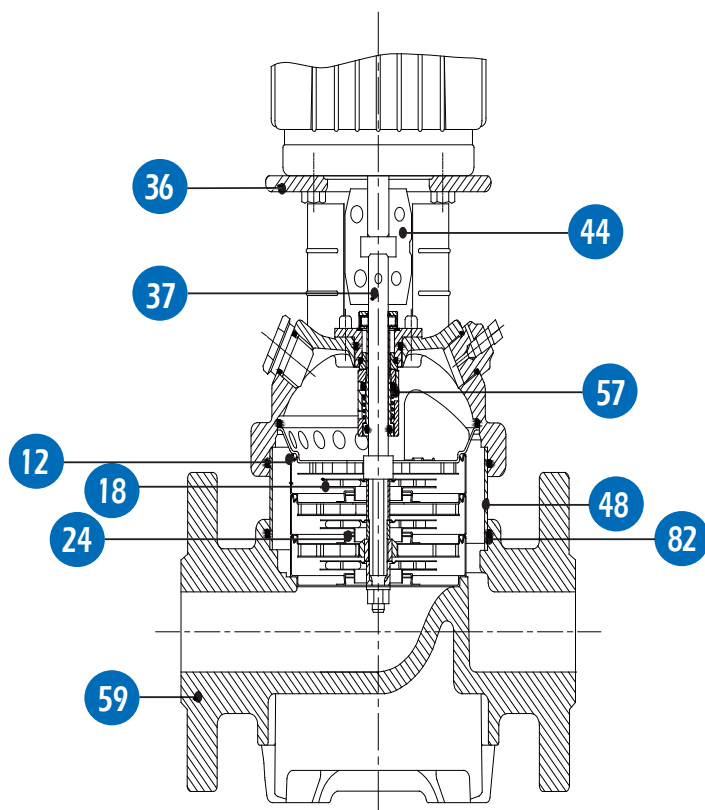
WVG : Cast Iron Base Version

WVIG : AISI 304 Base Version

WVNG : AISI 316 Base Version

WVG-1,3,5,10,15,20

WVIG/ WVNG-1,3,5,10,15,20



Constructions								
Pos.	Name	Material	WVG-1,3,5,10,15,20		WVIG-1,3,5,10,15,20		WVNG-1,3,5,10,15,20	
			Standard		Standard		Standard	
			Europe	USA	Europe	USA	Europe	USA
36	Pump head	Cast Iron	EN-GJL-200	ASTM 25B	EN-GJS-450-10	ASTM 65-45-12	EN-GJS-450-10	ASTM 65-45-12
44	Coupling	Fe-Cu-C	SINT C11	MPIF FC0525	SINT C11	MPIF FC0525	SINT C11	MPIF FC0525
37	Shaft	Stainless steel	1.4057	AISI 431	1.4057	AISI 431	1.4401	AISI 316
57	Mechanical seal	Cartridge type						
56	Pump head cover	Stainless steel	N/A	N/A	1.4301	AISI 304	1.4401	AISI 316
12	Chamber	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
18	Impeller	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
48	Outer Sleeve	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
24	Neck ring	PTFE						
82	O-ring for outer sleeve	EPDM						
59	Base	Cast Iron	EN-GJL-200	ASTM 25B	N/A	N/A	N/A	N/A
	Base	Stainless steel	N/A	N/A	1.4301	AISI 304	1.4401	AISI 316
62	Base plate	Cast Iron	N/A	N/A	EN-GJL-200	ASTM 25B	EN-GJL-200	ASTM 25B

## Product Data

WVG, WVIG, WVNG										
Range	1	3	5	10	15	20	32	45	64	90
50Hz										
Flow range (m³/h)	0.7-2.3	1.2-4.4	2.5-8.4	5-12.9	8.5-23.4	10.5-28.9	15-39.9	22-57.9	30-84.9	45-119.9
Max. working pressure (bar)	21.5	23	24	21.5	23	24.3	27.5	33	21.8	20
Liquid handled										
Type of liquid WVG/WVIG	Non-corrosive liquids, for fluid transfer, circulation and pressure boosting of cold or hot clean water									
Type of liquid WVNG	Industrial liquids and light acids									
Fluid temperature (°C)	-15~+120									
Motor power (kw)	0.37-2.2	0.37-3	0.37-5.5	0.37-7.5	1.1-15	1.1-18.5	1.5-30	3-45	4-45	5.5-45
Electric motor										
Mains connection 3 phase ( V/Hz ) (permissible voltage tolerance ± 10%)	For 0.37-4 kw : 220/380V (D.O.L), 50Hz From 5.5kw and up : 380/660V (λ-Δ) , 50 Hz									
Insulation class	F									
Enclosure class	IP 55									
Ambient temperature	Max. +50 °C									
WVG Pipe Connection										
Flange	DN 25/ DN 32	DN 25/ DN 32	DN 25/ DN 32	DN 40	DN 50	DN 50	DN 65	DN 80	DN 100	DN 100
WVIG/WVNG Pipe Connection										
Flange	DN 25/ DN32	DN 25/ DN32	DN 25/ DN32	DN 40	DN 50	DN 50	DN 65	DN 80	DN 100	DN 100
Victaulic-connections	R 1 1/4 DN32	R 1 1/4 DN32	R 1 1/4 DN32	R 2 DN50	R 2 DN50	R 2 DN50	N/A	N/A	N/A	N/A
Shaft Seal										
Type	Mechanical Seals SiC/SiC									
Seals	EPDM (Standard)									
	Viton (Optional)									
Pump materials										
WVG : Cast iron and Stainless steel EN 1.4301/AISI 304	√	√	√	√	√	√	√	√	√	√
WVIG : Stainless steel EN 1.4301/AISI 304	√	√	√	√	√	√	√	√	√	√
WVNG : Stainless steel EN 1.4301/AISI 316	√	√	√	√	√	√	√	√	√	√

>Flange standards : Refer to dimensional drawings

All technical information is subject to change without notice.

## Mechanical Seals



The Mechanical Seal of the pump is of the standard cartridge type, silicon carbide / EPDM or viton. Being cartridge type, the mechanical seal is easy to replace for the maintenance.

Depending on nature of application, alternative materials are available (on demand) for the seals and elastomers.





Jl. Suryopranoto No. 2 Komplek Ruko Harmoni Plaza  
Blok B 25 Jakarta Pusat 10130  
Phone. (021) 769 0985, 7581 8472, 632 4005, 6312 558  
Fax. (021) 765 5358, 633 0186, 633 0187  
Email : [info@tirta-potensia.co.id](mailto:info@tirta-potensia.co.id)