

High Pressure Centrifugal Pumps VKI

P U M P E N
OSNA
T E C H N O L O G I E



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Non-selfpriming multistage high-pressure centrifugal pump in vertical in-line design

- high efficiency
- low-noise operation
- modular construction
- use of high grade material
- little maintenance necessary
- easy to service

Application

For the pumping of clear and slightly contaminated liquids in: pressure boosting systems, central heating, cold and hot water circulation, water supply systems, power stations, filter units, fire extinguishing and irrigation plants

Liquids

Fresh water, drinking water, boiler feed water, process water, sea and brackish water, hot water, condensate, lye and many more liquids which are free of aggressive components and do not corrode the material of construction (1.4301/AISI 304)

Capacity: up to 26 m³/h
(95 IGPM/115 USGPM)

Head: up to 230 m (755 ft)

Speed: up to 3500 rpm

Temperature: up to 90 °C (120 °C)
194 °F (248 °F)

Materials

All pump parts in contact with the medium made of 1.4301 (AISI 304), 1.4401 (AISI 316) is optionally available

Shaft sealing

standardized mechanical seal

Flanges

DN 32 to DN 50, DIN 2534, PN 25

Lubrication

friction bearing, lubricated by pumping liquid

Drive 50 Hz

IEC-standard 3-phase electric motor 400 V, insulation class F, Protection IP 55

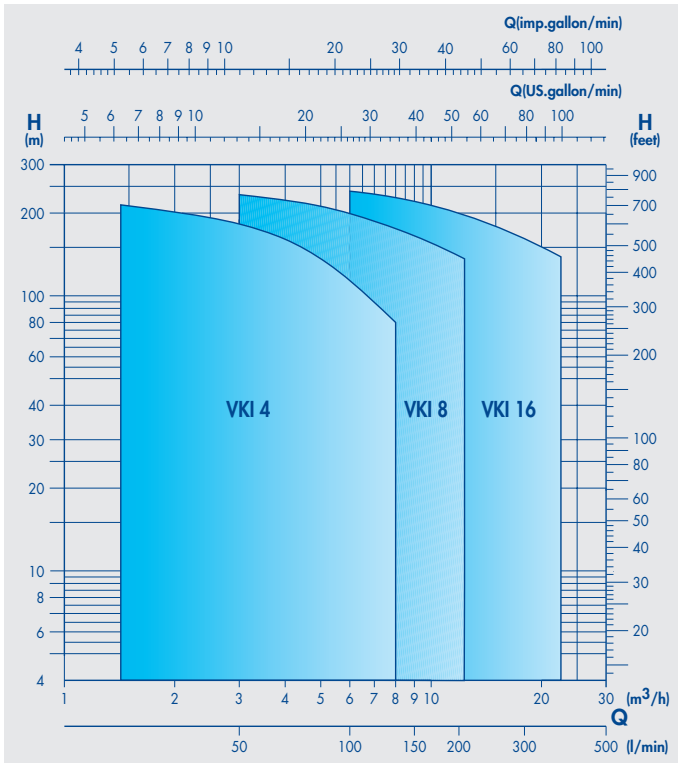
Drive 60 Hz

IEC- standard 3- phase electric motor 460 V, insulation class F, Protection IP 55

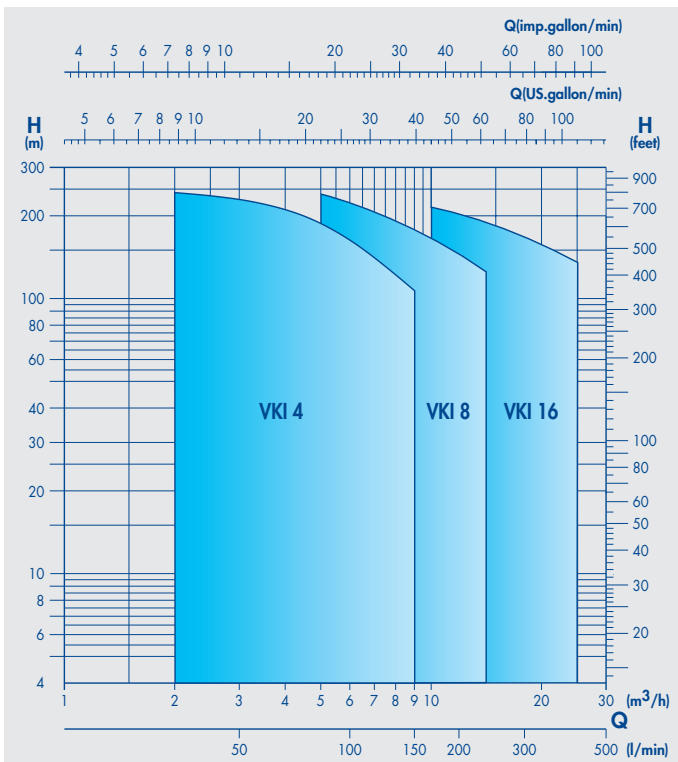
Options for electric motors:

- special voltage and/or frequency
- PTC- resistors for operation with frequency transformer
- up to 4 kW: integrated frequency transformer with PI-controller and sensor. Programming on clear text display.





VKI, performance range at 2.900 rpm



VKI, performance range at 3.500 rpm



An OSNA motor controller which consists of a motor and an integrated, fully programmable frequency controller is optionally available. This controller provides exact and quick adjustment to changing operating conditions. The display shows the actual parameters in clear text, the target parameters can be entered using the keyboard.

Model designation	Min. Number of Stages	Max. Number of Stages at Speed r.p.m.	
		2900	3500
VKI 4	2	22	16
VKI 8	2	20	14
VKI 16	2	16	10



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