

VR SERIES

Vertical Multi-Stage In Line Pump



Design

Calgon Vertical Multi-Stage In Line pump is of compact design with hydraulic parts made of stainless steel material for better corrosion-resistant. Its unique design ensuring the pump is quiet in operation, easy to service with no compromise on quality and reliability. The extensive model range can adequately satisfy the most varied pumping requirement.

Applications



Building Services

- Water transfer
- Pressure boosting
- Distribution to fittings
- Fire fighting



Agriculture

- Irrigation – park, golf course, etc
- Sprinkler system
- Drip-feed irrigation



Industries

- Boiler Feed
- Ultra filtration system
- Reverse osmosis
- Softening, ionising and demineralising system
- High pressure cleaning



Water Supply

- Water distribution to housing estate
- In line pressure boosting

Operating Data

Head (maximum)	: 230 m
Capacity (up to)	: 110 m ³ /hr
Liquid Temperature	: -30°C to 120°C
Type of Pumped Medium	: Non-aggressive liquid free from solid particles

Pump Flange Connection

Pump Type	DIN Flange
VR/VRN/VRS 2	DN 25, PN 16
VR/VRN/VRS 4	DN 32, PN 16
VR/VRN/VRS 10	DN 40, PN 16
VR/VRN/VRS 15,16,20	DN 50, PN 16

Pump Type	DIN Flange
VR/VRN/VRS 32	DN 65, PN 16
VR/VRN/VRS 45	DN 80, PN 16
VR/VRN/VRS 64, 90	DN 100, PN 16
VR/VRN/VRS 120, 150	DN 125, PN 16
VR/VRN/VRS 200	DN 150, PN 16



Coupling

Split coupling design with no alignment required. No replacement of wear & tear parts, as it consists of two metal couplings mechanically locking the motor and pump shafts together.

Shaft Seal

As standard, the pumps are fitted with uncooled, maintenance free mechanical seal.

Driver

The motor is totally enclosed fan cooled, 2 pole, squirrel cage in accordance with IEC standard (IEC 60034 and IEC 60072).

Enclosure class : IP 55

Insulation Class : F

Voltage /Frequency : Standard voltage are 415V 50Hz, 380V 50Hz,
220/380V 60Hz, 440/460V 60Hz.

Direction of Rotation : Anti-clockwise viewed from drive end



Quality Control



Product quality is Calgon commitment to clients. The extensive use of stainless steel enhance product durability with high operating reliability. The entire production process is governed with ISO 9001 quality management system and is complied to ISO 14001 environmental management system. We don't just demand quality but we supply it.

Solutions Tailored To Each Application



Variable Speed Booster System

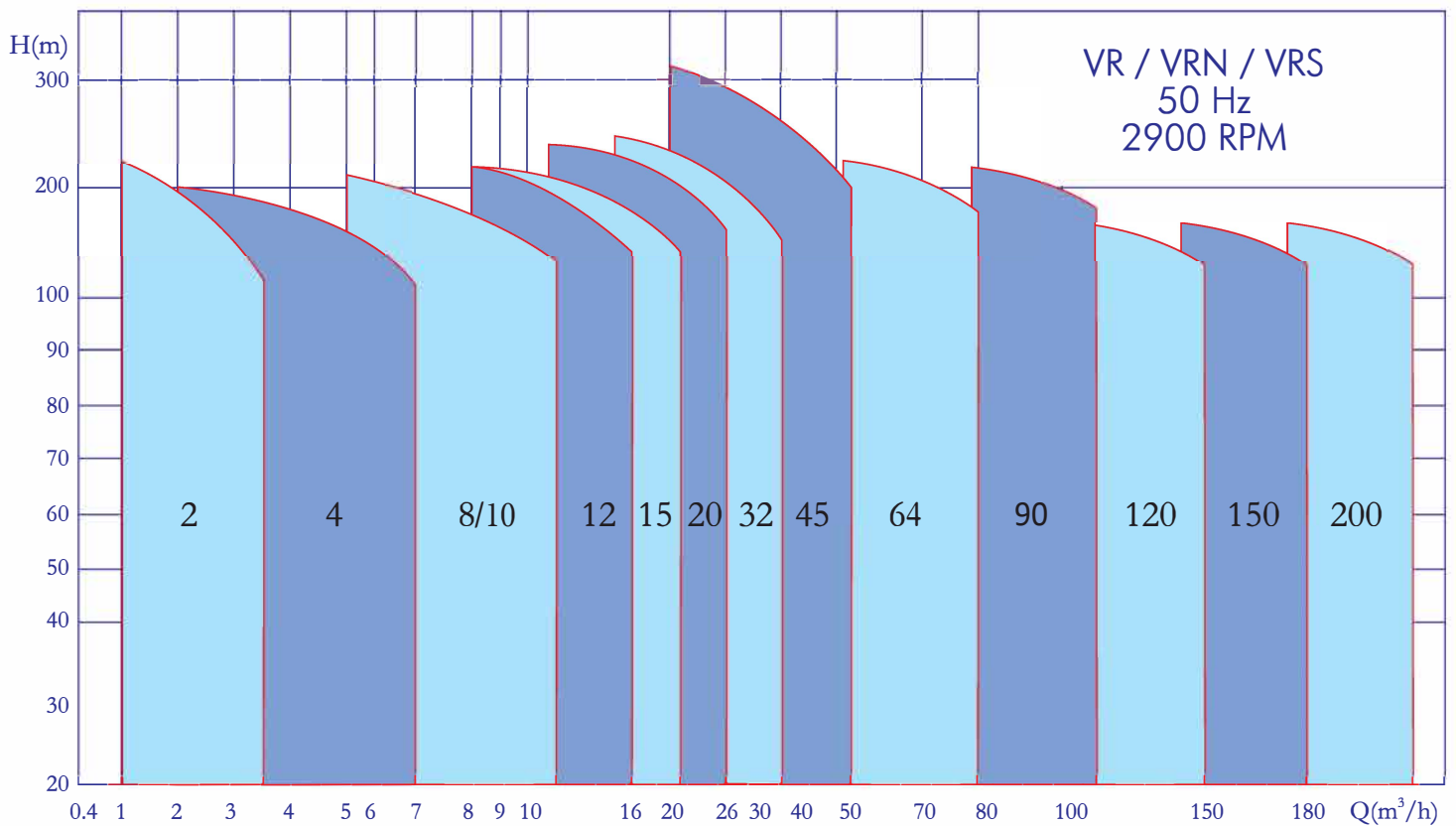


Hydro-Pneumatic Booster System

Material of Construction

Parts	VR (AISI / ASTM)	VRN (AISI / ASTM)	VRS (AISI / ASTM)
Pump Head	Cast Iron ASTM 25B	Cast Iron ASTM 25B	Cast Iron ASTM 25B
Shaft	Stainless Steel AISI 316	Stainless Steel AISI 316	Stainless Steel AISI 316
Impeller	Stainless Steel AISI 304	Stainless Steel AISI 304	Stainless Steel AISI 316
Chamber	Stainless Steel AISI 304	Stainless Steel AISI 304	Stainless Steel AISI 316
Outer Sleeve	Stainless Steel AISI 304	Stainless Steel AISI 304	Stainless Steel AISI 316
Base	Cast Iron ASTM 25B	Stainless Steel AISI 304	Stainless Steel AISI 316
Rubber Parts	FPM	FPM	FPM
Shaft Seal	Mechanical Seal	Mechanical Seal	Mechanical Seal
Guide Vane	Stainless Steel AISI 304	Stainless Steel AISI 304	Stainless Steel AISI 316
Bearing Sleeve	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide
Base Plate	Cast Iron ASTM 25B	Cast Iron ASTM 25B	Cast Iron ASTM 25B

Selection Chart



60 Hz curve is available upon request