

► The power of proven technology

VIR



Type VS-1
Vertical Multistage
Pump
Acc. ISO-13709
(API-610)



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Applications



VIR pumps are designed for pumping clean or slightly contaminated liquids.

Applications:

- Offshore applications
- Chemical processing
- Petrochemical processing
- Refineries
- Storage facilities



Features and benefits

Hydraulics

Pump sizes are consisting of an impeller/diffuser combination, achieving an optimal match to the required operating conditions.

Impeller(s) and casing are standard provided with renewable back and front wearings.

Shaft design & intermediate bearings

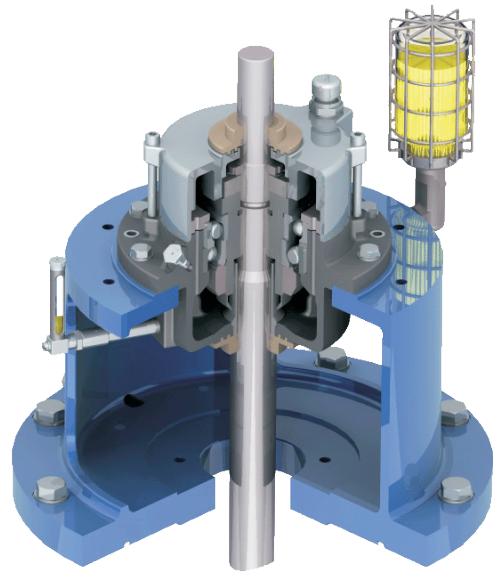
Stiff shaft design ensures stable operation under all service conditions.

For longer lengths the shaft is split into a pump shaft and a driven shaft.

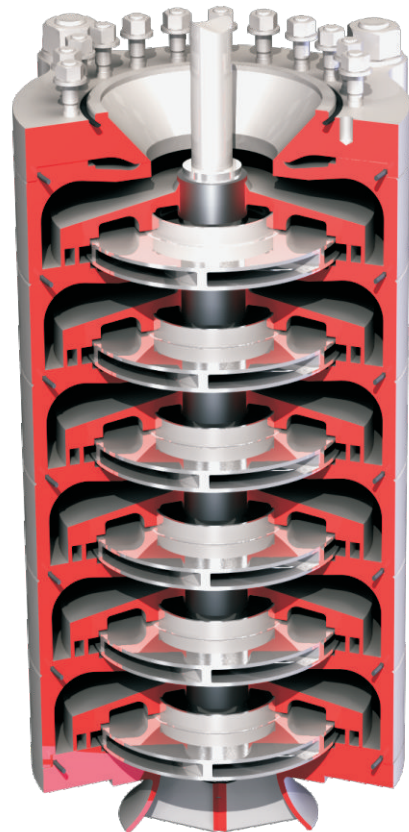
Intermediate bearings with internal flushing are used for smooth running.

Alignment

Centre lined and flanged columns ensure a good alignment of the pump.



Bearing housing



Multistage hydraulic



Shaft Sealing

Mechanical seal chamber suitable for all kinds of cartridge mounted seal design acc. to API 682 Standard.

As an option a magnetic coupled design is available, for services such as hydrocarbons, liquefied gasses and toxic fluids. Easy removal of mechanical seals is possible by simply removing the bearing housing.

Flanges are according ANSI or DIN

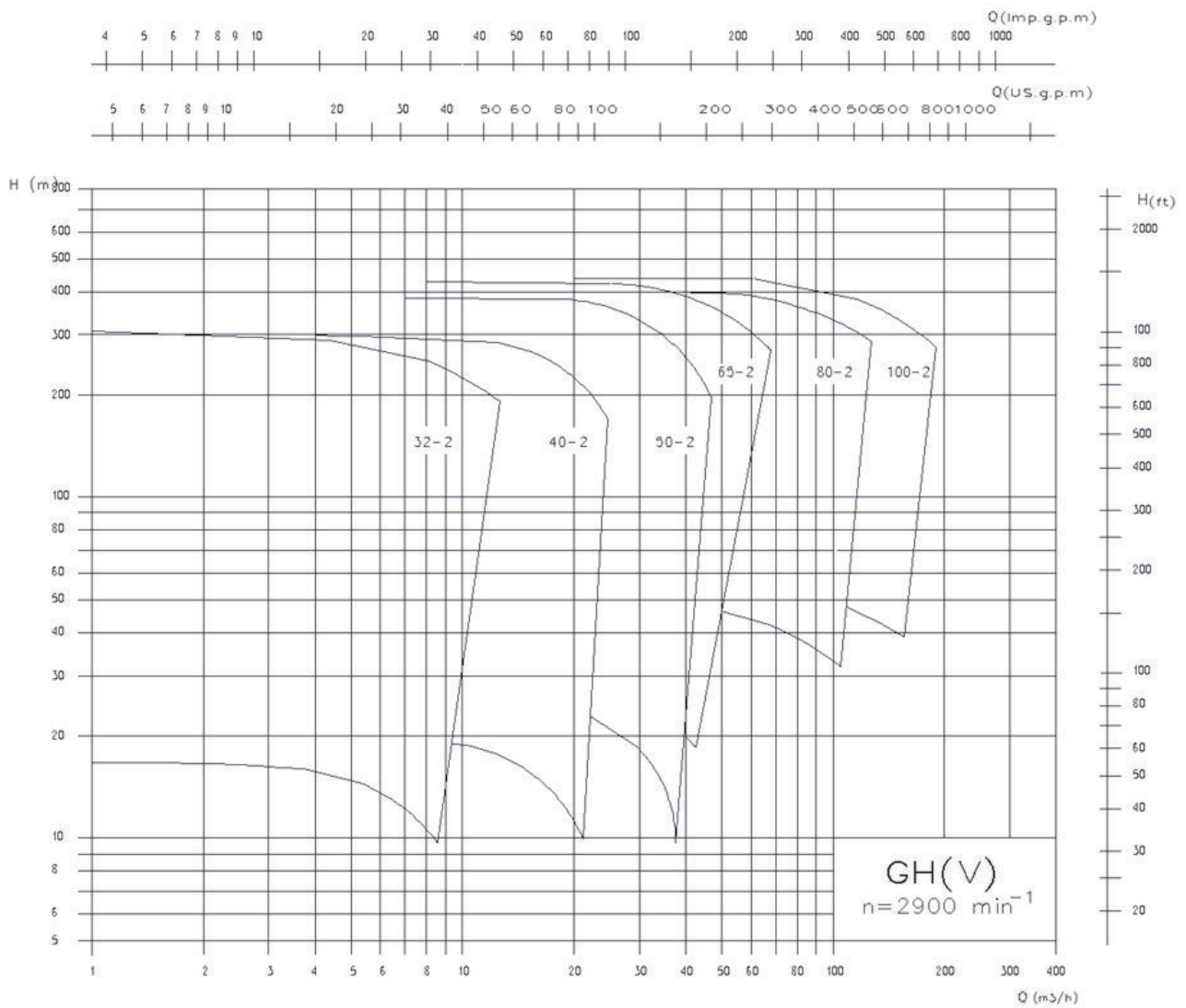
E-motors

Pumps are provided with a vertical flanged motor (type IEC V1)

Couplings

All steel flexible spacer coupling, provided with non-sparking coupling guard, ensuring safety and enabling visual inspection of coupling and sealing areas.

Overview performance curves at 3000 rpm



Materials of construction fully according ISO 13709:2003 (API 610)

	S1	S6	S8	A8
Pump casing	A 216 Gr WCB	A 216 Gr WCB	A 216 Gr WCB	A 351 Gr CF3M
Impeller	A 48-40	A 743 Gr CA15	A 743 Gr CF3M	A 743 Gr CF3M
Case wearings	A 743 Gr CA15 HB 250	A 743 Gr CA15 HB 250	A 743 Gr CF3 + Colm.6	A 743 Gr CF3 + Colm.6
Impeller wearings	A 743 Gr CA15 HB 350	A 743 Gr CA15 HB 350	A 743 Gr CF3	A 743 Gr CF3
Shaft	A 276 Type 410	A 276 Type 410	A 479 Type 316	A 479 Type 316
Interstage sleeves	A 276 Type 410	A 276 Type 410	A 479 Type 316	A 479 Type 316
Interstage bushings	A 276 Type 410	A 276 Type 410	A 479 Type 316 + Colm.6	A 479 Type 316 + Colm.6
Case and gland studs	A 193 Gr B 6	A 193 Gr B 6	A 193 Gr B 6	A 193 Gr B 6
Case gasket	Spiral wound	Spiral wound	Spiral wound	Spiral wound
Column	A 106 Gr B	A 106 Gr B	A 312 Type 316 (DIN 1.4401)	A 312 Type 316 (DIN 1.4401)
Column bushings	Carbon	Carbon	Carbon	Carbon
Wetted fasteners Bolts	A 193 Gr B8M	A 193 Gr B8M	A 193 Gr B8M	A 193 Gr B8M
Wetted fasteners Nuts	A 194 Gr 2H	A 194 Gr 2H	A 194 Gr 2H	A 194 Gr 2H



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