ANTICO

non metallic pumps

VGP Series - Vertical Glandless Pumps

ANTICO

VGP SERIES

Decades of experience in development & manufacturing of injection Moulded Polypropylene Corrosion Resistant Pumps.

Design philosophy is to design pumps that are simple, rugged & reliable using for most appropriate materials.

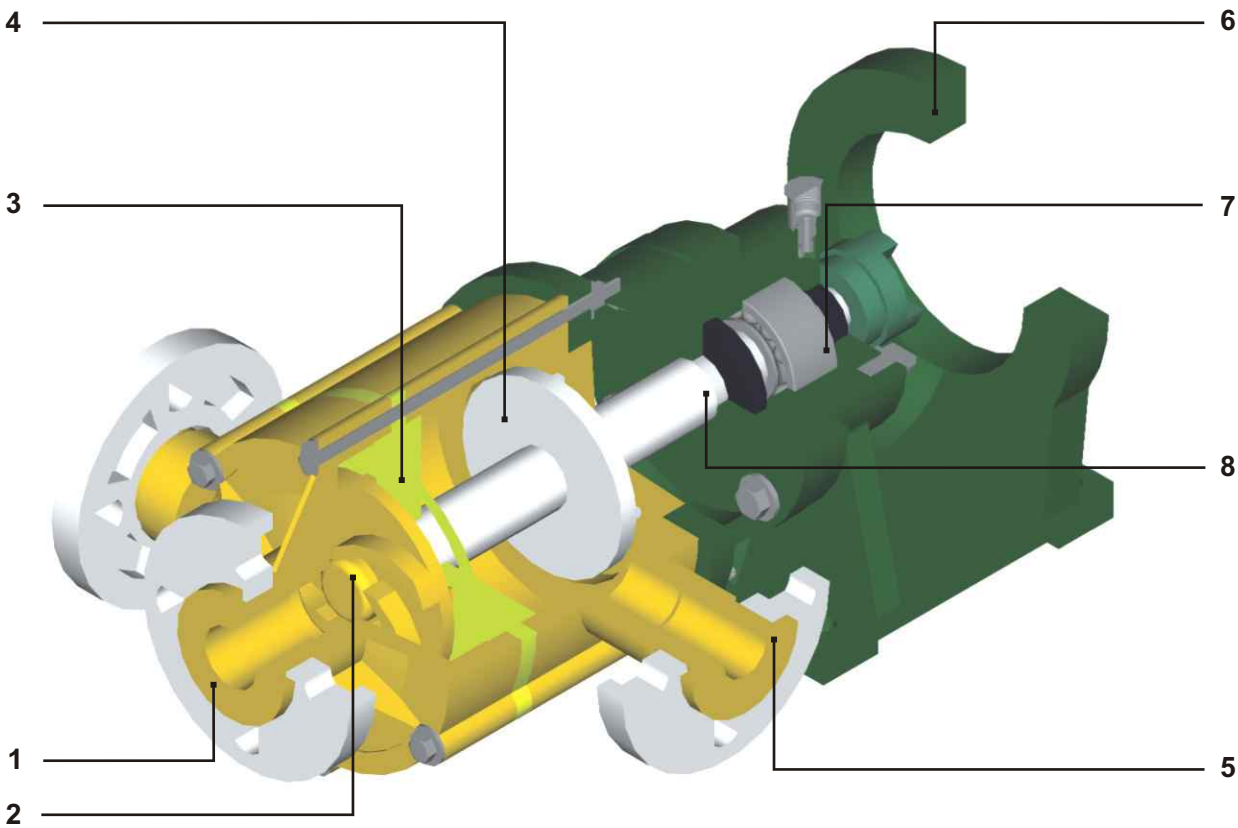
Polypropylene, a vinyl polymer has low density is fairly rigid & has temperature resistance up to 80º C. Its outstanding characteristic is resistance to strong acids coupled with good mechanical properties, light weight & excellent resistance to corrosion make it an obvious choice for ANTICO pumps.

VGP Series have been designed with maximum life and minimum maintenance in line with ANTICO Design Philosophy.

The range offers several advantages,

- No mechanical seal / gland
- Runs dry indefinitely
- Minimum maintenance hence reduced down-time
- Vertical mounting saves floor space

Design Features



1 Volute Casing
Top centreline discharge, self venting volute casing formed out injection moulded polypropylene.

2 Impeller
All impellers are precision moulded, light in weight, semi open construction, with large contoured flow passages for maximum handling of the liquid.

3 Backplate
Thick walled solid injection moulded polypropylene.

4 Expeller
Solid injection moulded polypropylene prevents liquid from going further up channelising it through the outlet of the overflow chamber.

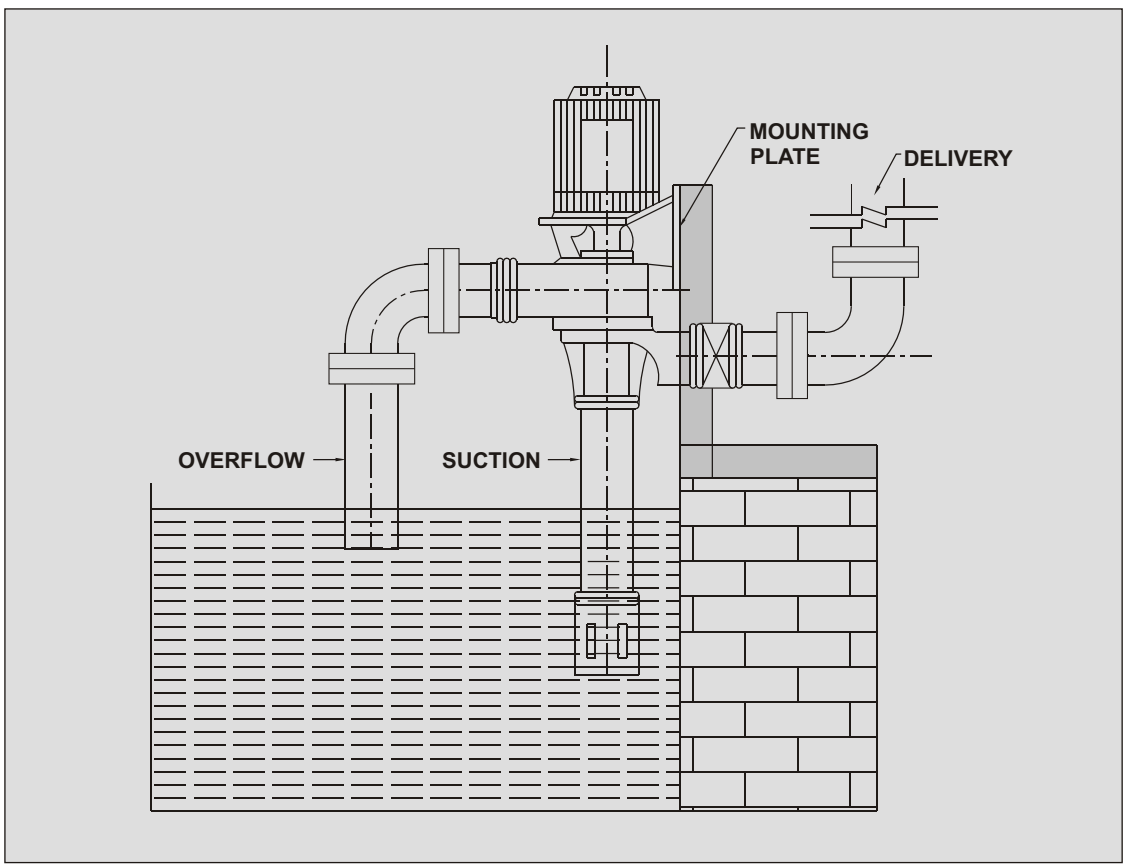
5 Overflow Chamber
Large Injection Moulded Polypropylene Chamber guides excess liquid back to the sump eliminating the need for a Shaft Seal.

6 Bearing Frame
Heavy Cast Iron construction, to accomodate vertical flange type Motor & for wall hung installation.

7 Ball Bearing
Single double row ball bearing is shouldered & locked on shaft with lock-nut and washer, and in bearing housing to carry radial and any unbalanced thrust load.

8 Shaft
The shaft is made of EN STEEL protected with Polypropylene sleeve does not come in contact with process media.

Vertical Glandless Pump Overview



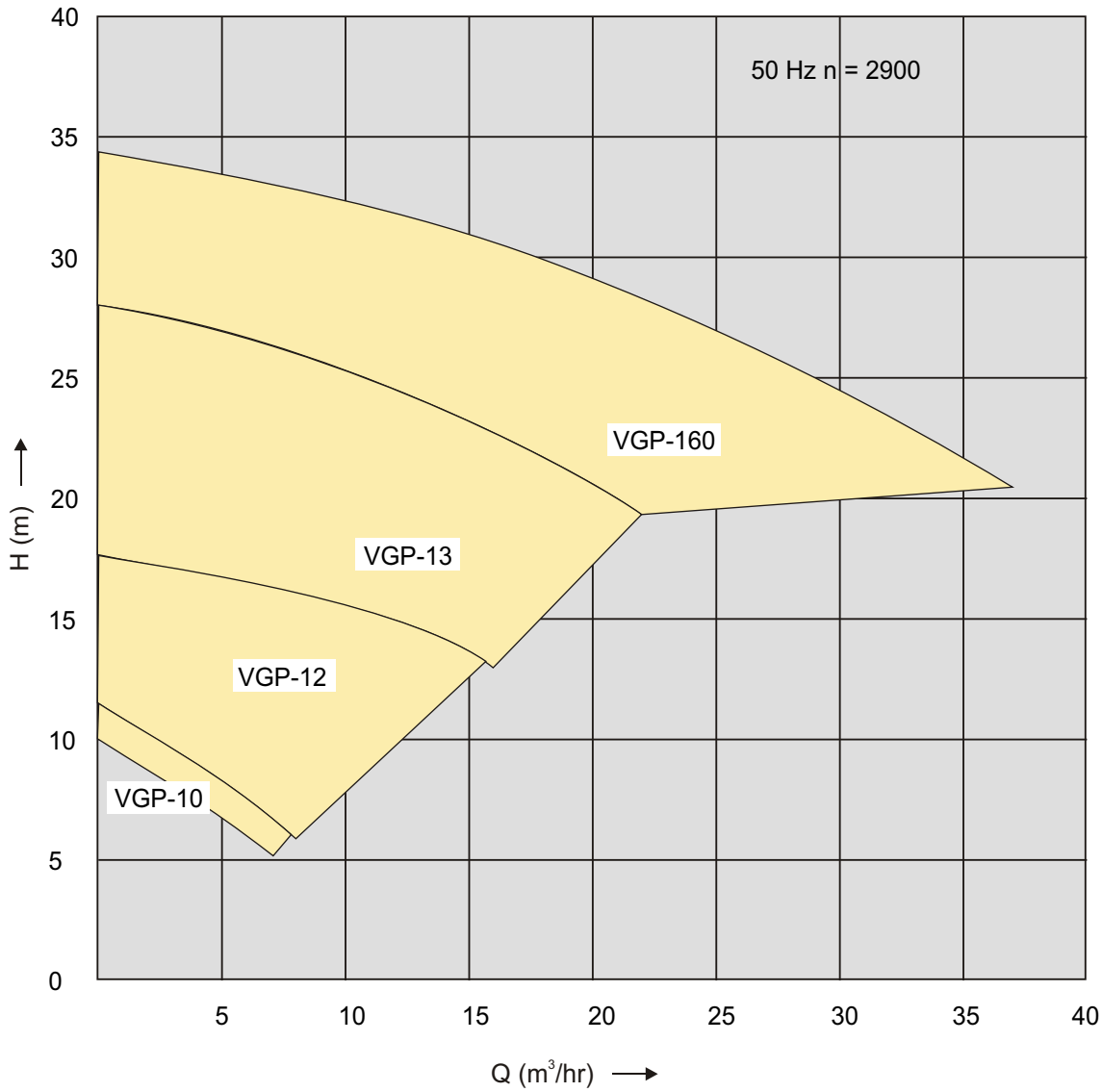
The pump is similar to any centrifugal pump. It is always installed in the vertical position and the design is such that any need for shaft sealing is eliminated by allowing a controlled leakage of the liquid being pumped to return to the suction tank with the help of an overflow pipe in the body of the pump.

The ability of glandless pump to run dry without any ill effect has made it a popular choice in process industry for effluent treatment.

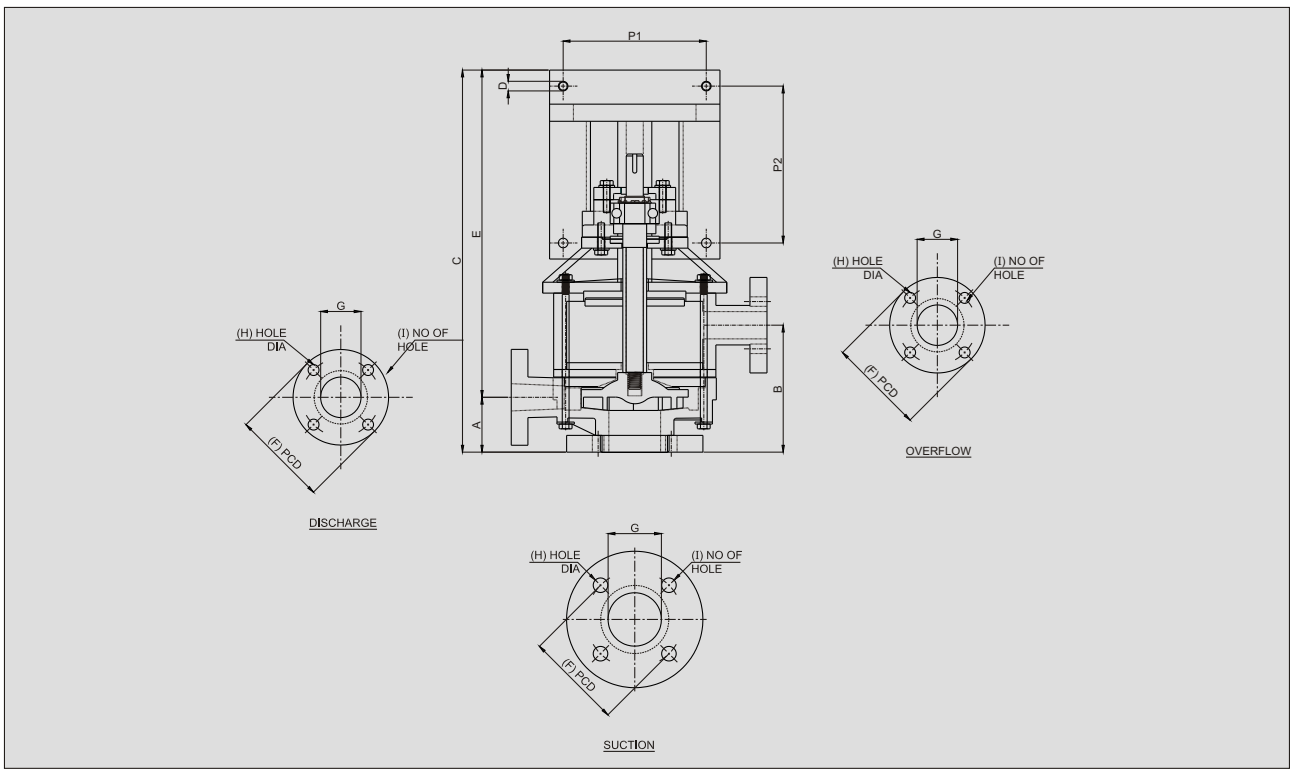
The most important gains to be reaped from the use of glandless pumps are in the sphere of maintenance and the consequent reduction in down -time.

The most widely used method of pump installation is as shown. When the pump is started, it will deliver liquid until the suction pipe is uncovered. Subsequently, the pump can be allowed to run dry until the liquid level is restored to the point where re-priming can take place.

Performance Range Chart



Pump Dimensions & Connections



MODEL	A	B	C	D	E	P1	P2	SUCTION FLANGE F	SUCTION FLANGE G	SUCTION FLANGE H	SUCTION FLANGE I	DISCHARGE FLANGE F	DISCHARGE FLANGE G	DISCHARGE FLANGE H	DISCHARGE FLANGE I	OVERFLOW FLANGE F	OVERFLOW FLANGE G	OVERFLOW FLANGE H	OVERFLOW FLANGE I
VGP - 160	80	186	560	14	480	210	230	152	75	18	04	98	40	14	04	98	40	14	04
VGP - 13	95	198	549	14	455	124	170	98	35	14	04	98	32	14	04	98	32	14	04
VGP - 12	86	181	533	14	447	124	170	98	35	14	04	98	32	14	04	98	32	14	04
VGP - 10	75	172	524	14	449	124	170	85	25	14	04	85	25	14	04	85	25	14	04

NOTE :

1) ALL DIMENSIONS IN mm
2) DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE
3) FLANGES AS PER ANSI B 16.5 # 150 RF

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