Submersible Pumps



35







GMV



Submersible pumps with vortex impeller in cast iron EN-GJL-250

GMVS



Submersible pumps with vortex impeller in cast iron with polyurethane coating

GMC



Submersible pumps with single channel impeller in cast iron EN-GJL-250



Submersible pumps with channels impeller in cast iron EN-GJL-250

GMG



Submersible pumps with grinder in cast iron EN-GJL-250

I-GMV



Submersible pumps with vortex impeller in stainless steel AISI316

I-GMC



Submersible pumps with single channel impeller in stainless steel AISI316

I-GMN



Submersible pumps with channels impeller in stainless steel AISI316

B-GMV



Submersible pumps with vortex impeller in Marine Bronze B10

B-GMC



Submersible pumps with single channel impeller in Marine Bronze B10



Submersible pumps with channels impeller in Marine Bronze B10



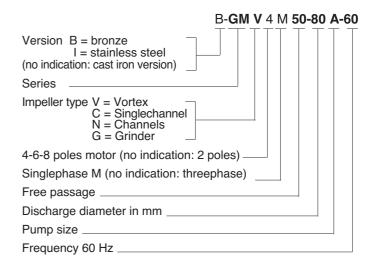
A new series of submersible pumps with high efficiency hydraulics designed to move slurry, sewage and industrial

The range covers a wide field of use with head up to 75 m And flows up to 2300 m³/h, with a maximum solid passage up to 140 mm keeping the risk of blockage to a minimum.

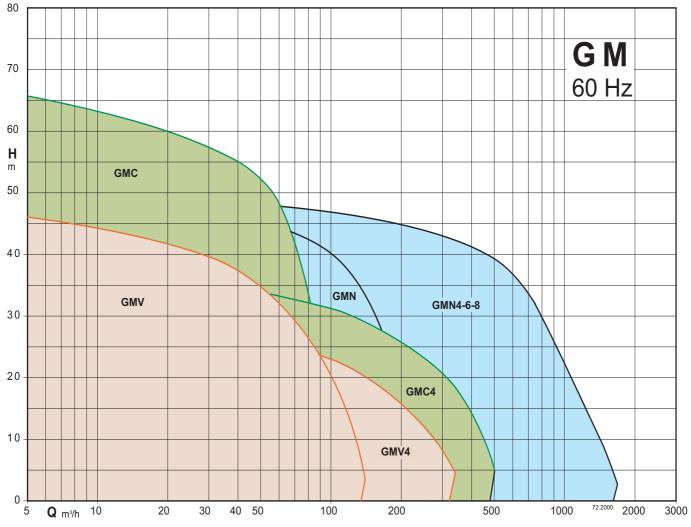
Dimensionally designed for heavy demand, even on critical applications.

Explosion proof version on request.

Pump designation



Coverage chart



Tolerances according to UNI EN ISO 9906:2012.

GMV 60 Hz Submersible pumps with vortex impeller





Main materials

Pump casing: cast iron EN-GJL-250 Impeller: cast iron EN-GJL-250+Ni Motor casing: cast iron EN-GJL-250 Motor cover: cast iron EN-GJL-250 Shaft: stainless steel AISI 420B

Mechanical seal motor side: graphite/ceramic

Mechanical seal pump side: silicon carbite/silicon carbite

Construction

Submersible pumps with vortex impeller. Twin mechanical seal with oil chamber. Delivery connection DN 80-100-150.

Applications

Suitable to pump slurry and sewage waters with the presence of solid and filamentous parts in suspension, they are in particular pointed out for emptying sceptic tanks in the domestic, residential and industrial installations.

Solid passage diameter from 50 to 100 mm.

Operating conditions

Liquid temperature up to 40 °C. Maximum immersion depth: 20 m (with suitable cable length). Continuous duty (with pump immerged at minimum level).

Motor

2 or 4 poles induction, 60Hz

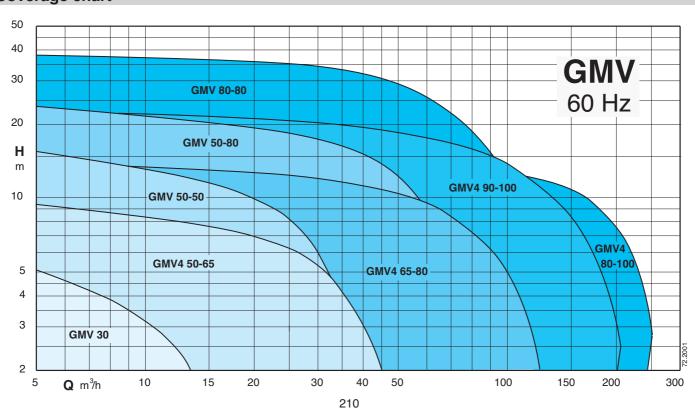
Three-phase version: 380V ± 10%, up to 3,2 kW

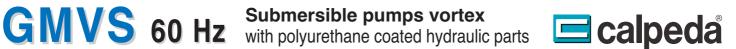
 $380/660V \pm 10\%$, over 3,2 kW

Insulation Class: H Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m Other models: contact our sale office







Main materials

Pump casing: cast iron EN-GJL-250 with polyurethane coating

Impeller: Polyurethane with a stainless steel core

Motor casing: cast iron EN-GJL-250 Motor cover: cast iron EN-GJL-250 Shaft: stainless steel AISI 420B

Mechanical seal motor side: graphite/ceramic

Mechanical seal pump side: silicon carbite/silicon carbite

Construction

Submersible pumps with vortex impeller

Impeller in Polyurethane with a stainless steel core - Pump casing in Cast iron EN-GJL-250, with polyurethane coating for parts subject to high wear.

Twin mechanical seal with oil chamber.

Delivery connection DN 80.

Applications

The pumps are designed to suit applications in plants with an high sand presence, in marble work companies, in the ceramic industry, crystals machining or industrial processes handling abrasives liquids.

Solid passage diameter from 35 mm.

Operating conditions

Liquid temperature up to 40 °C.

Maximum immersion depth: 20 m (with suitable cable length). Continuous duty (with pump immerged at minimum level).

Motor

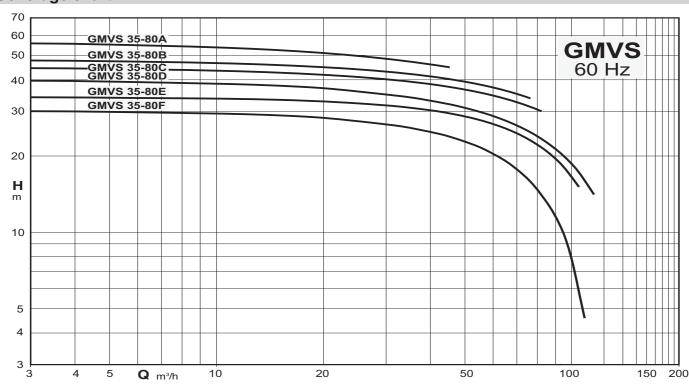
2 or 4 poles induction, 60Hz

Three-phase version: 380/660V ± 10%.

Insulation Class: H Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m Other models: contact our sale office



GMC 60 Hz Submersible pumps with single channel impeller





Main materials

Pump casing: cast iron EN-GJL-250 - Impeller: cast iron EN-GJL-250+Ni

Motor casing, Motor cover: cast iron EN-GJL-250

Motor shaft: stainless steel AISI 420B Lip seal made of nitrile up to 1,4 kW

Mechanical seal motor side: graphite/ceramic over 1,4 kW Mechanical seal pump side: silicon carbite/silicon carbite

Construction

Submersible pumps with single channel impeller.

Twin mechanical seal with oil chamber (lip-seal motor side up to 1,4 kW).

Delivery connection DN 80-100-150

Applications

Suitable to pump slurry, sewage, waste water (non-corrosive). In industrial and residential installations and drainag applications Solid passage from 40 to 100mm

Operating conditions

Liquid temperature up to 40 °C.

Maximum immersion depth: 20 m (with suitable cable length). Continuous duty (with pump immerged at minimum level).

Motor

2 or 4 poles induction, 60Hz

Single-phase version: 220V ± 10%, with float switch and built-in

capacitor.

Three-phase version: 380V ± 10%, up to 3,2 kW

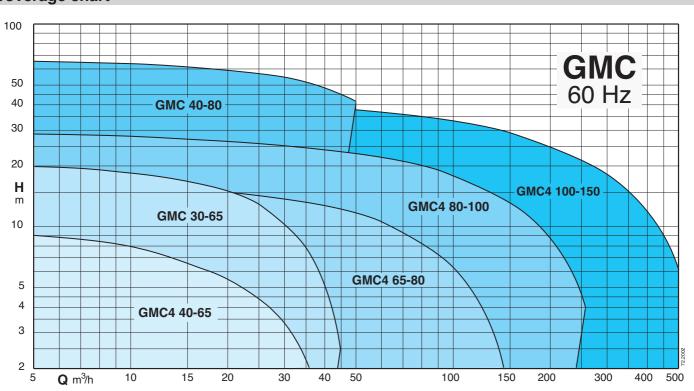
 $380/660V \pm 10\%$, over 3,2 kW

Insulation class: H

Protection degree: IP 68

 N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m Other models: contact our sale office



Submersible pumps with channels impeller





Construction

Submersible pumps with channels impeller. Twin mechanical seal with oil chamber. Delivery connection DN 65-80-100-150-200-250-300.

Applications

Suitable to pump slurry, sewage and waste water (non-corrosive) with solids in suspension.

For industrial and residential installations and general drainage applications.

They are ideal for applications with smaller solids.

Solid passage from 30 to 140 mm

Operating conditions

Liquid temperature up to 40 °C.

Maximum immersion depth: 20 m (with suitable cable length). Continuous duty (with pump immerged at minimum level).

Main materials

Pump casing: cast iron EN-GJL-250 Impeller: cast iron EN-GJL-250+Ni Motor casing: cast iron EN-GJL-250 Motor cover: cast iron EN-GJL-250 Shaft: stainless steel AISI 420B

Mechanical seal motor side: graphite/ceramic

Mechanical seal pump side: silicon carbide/silicon carbide

Motor

2-4-6 or 8 poles induction, 60Hz

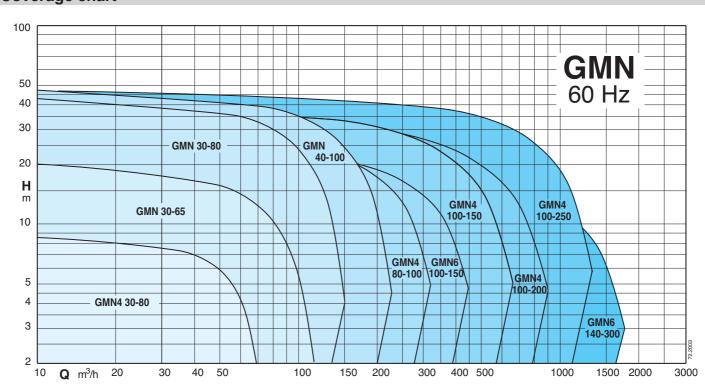
Three-phase version: $380V \pm 10\%$, up to 3,2 kW $380/660V \pm 10\%$, over 3,2 kW

300/000 v ± 10 /6, 0

Insulation class: H Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m Other models: contact our sale office



GMG 60 Hz Submersible pumps with high power grinder





Main materials

Pump casing: cast iron EN-GJL-250 Motor casing: cast iron EN-GJL-250 Motor cover: cast iron EN-GJL-250 Impeller: cast iron GS 400 Shaft: stainless steel AISI 420B Lip seal made of nitrile up to 1,6 kW

Mechanical seal motor side: graphite/ceramic to 1,6 kW Mechanical seal pump side: silicon carbide/silicon carbide

Construction

Submersible pumps with high power grinder.

Twin mechanical seal with oil chamber (lip-seal motor side up to 1.6 kW).

Delivery connection DN 40.

Applications

Suitable for pumping waste water containing long filamentous,

Paper and textile materials and organics.

They are particularly suitable for use in domestic, residential and industrial installations

Solid passage from 6 and 7 mm

Operating conditions

Liquid temperature up to 40 °C.

Maximum immersion depth: 20 m (with suitable cable length). Continuous duty (with pump immerged at minimum level).

Motor

2 poles induction, 60Hz

Single-phase version: 220V \pm 10%, with float switch and control

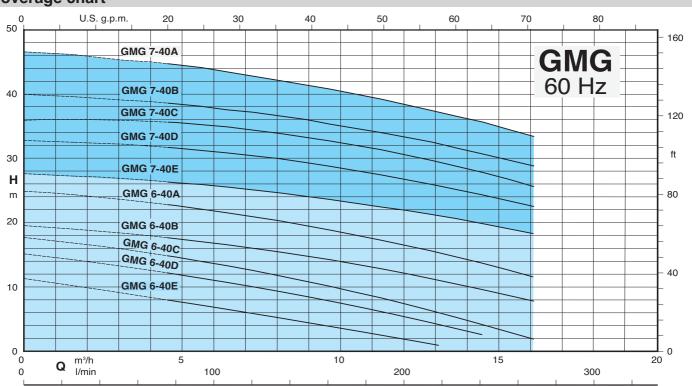
box with thermal protection and starting capacitors. Three-phase version: $380V \pm 10\%$, up to 3,2 kW

380/660V ± 10%, over 3,2 kW

Insulation class: H Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m Other models: contact our sale office



-GM 60 Hz Submersible pumps AISI 316 = calpeda





Construction

Submersible pumps in AISI 316 stainless steel.

I-GMV with free-flow (vortex) impeller I-GMC with single-channel impeller

I-GMN with channels impeller

Twin mechanical seal with oil chamber (lip-seal motor side up to

2,4 kW 2 poles).

Delivery connection DN 50-65-80-100-150

Applications

Suitable to pump aggressive and corrosive liquids, particularly to drain waste water in industrial and chemical process plants. Solid passage from 30 to 100 mm

Operating conditions

Liquid temperature up to 40 °C.

Maximum immersion depth: 20 m (with suitable cable length). Continuous duty (with pump immerged at minimum level).

Main materials

Pump casing: stainless steel AISI 316 Motor casing: stainless steel AISI 316 Motor cover: stainless steel AISI 316 Impeller: stainless steel AISI 316 Shaft: stainless steel AISI 316L Screws: stainless steel AISI 316

Mechanical seal motor side: graphite/ceramic/FPM (lip-seal made of nitrile up to

2,4 kW 2 poles).

Mechanical seal pump side: silicon carbide/silicon carbide/FPM

Motor

2 or 4 poles induction, 60Hz

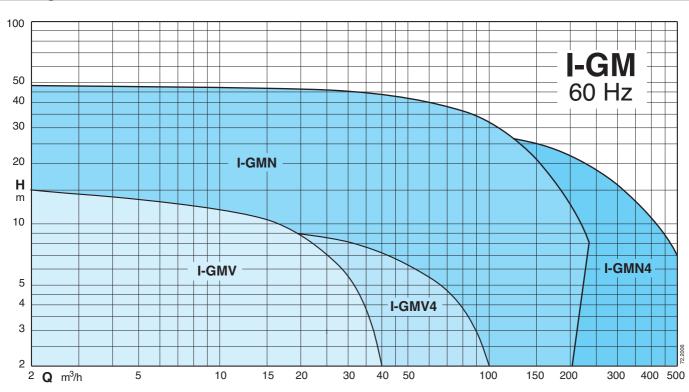
Three-phase version: $380V \pm 10\%$, up to 3,2 kW

380/660V ± 10%, over 3,2 kW

Insulation class: H Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m Other models: contact our sale office



B-GM 60 Hz Submersible pumps B 10 = calpeda





Construction

Submersible pumps, B 10 bronze marine version.

B-GMV with free-flow (vortex) impeller **B-GMC** with single-channel impeller

B-GMN with channels impeller

Twin mechanical seal with oil chamber (lip-seal motor side up to 2,4 kW 2 poles).

Delivery connection DN 50-65-80

Applications

Suitable to pump industrial waste water in chemical, and process industries, agricultural and marine areas. Solid passage from 30 to 50 mm

Operating conditions

Liquid temperature up to 40 °C. Maximum immersion depth: 20 m (with suitable cable length). Continuous duty (with pump immerged at minimum level).

Main materials

Pump casing, Motor casing, Motor cover: B 10 bronze marine

Impeller: stainless steel AISI 316 Motor shaft: stainless steel AISI 316L Screws: stainless steel AISI 316

Mechanical seal motor side: graphite/ceramic/FPM (lip-seal made of nitrile up to

2,4 kW 2 poles).

Mechanical seal pump side: silicon carbide/silicon carbide/FPM

Motor

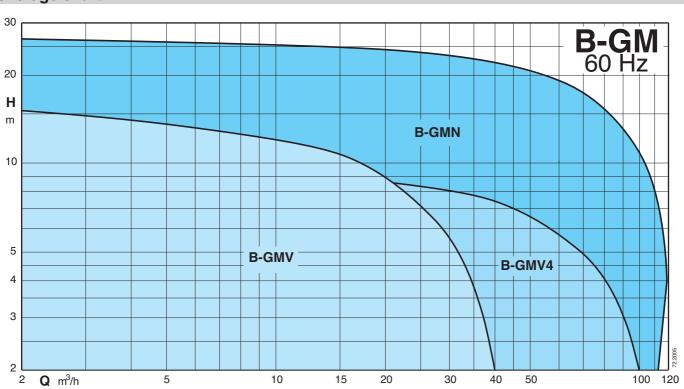
2 or 4 poles induction, 60Hz

Three-phase version: 380V ± 10%, up to 3,2 kW 380/660V ± 10%, over 3,2 kW

Insulation class: H Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m Other models: contact our sale office





THE IMPELLERS



Vortex impeller suitable for pumping liquids containing large solids and/or fibrous materials.

Applications: urban sewerage systems, animal breeding plants.



Sand Vortex Water Impeller in Polyurethane with a stainless steel core. Applications: in plants with an high sand presence, in marble work companies, in the ceramic industry, crystals machining or industrial processes where there's presence of abrasives liquids.



Single channel impeller, for liquids containing fibrous materials and/or suspended solids.

Applications: purification plants, tanneries, animal breeding plants.



Closed multi-channel impeller, for clean liquids or light solids without filamentous materials.

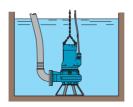
Applications: large drainage systems, purification plants.



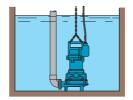
Multi-blade suction impeller with grinder constructed in stainless steel AISI 440. particularly suitable as a grinder for paper or textile materials.

Applications: clearance of waste waters originating from service stations, residential communities, camping sites, etc..

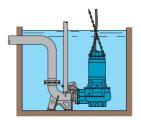
THE STANDARD INSTALLATIONS



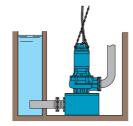
A Mobile and emergency installation with x-foot support



B Free installation and threated elbow



C Fixed installation with automatic coupling feet and guide rails.



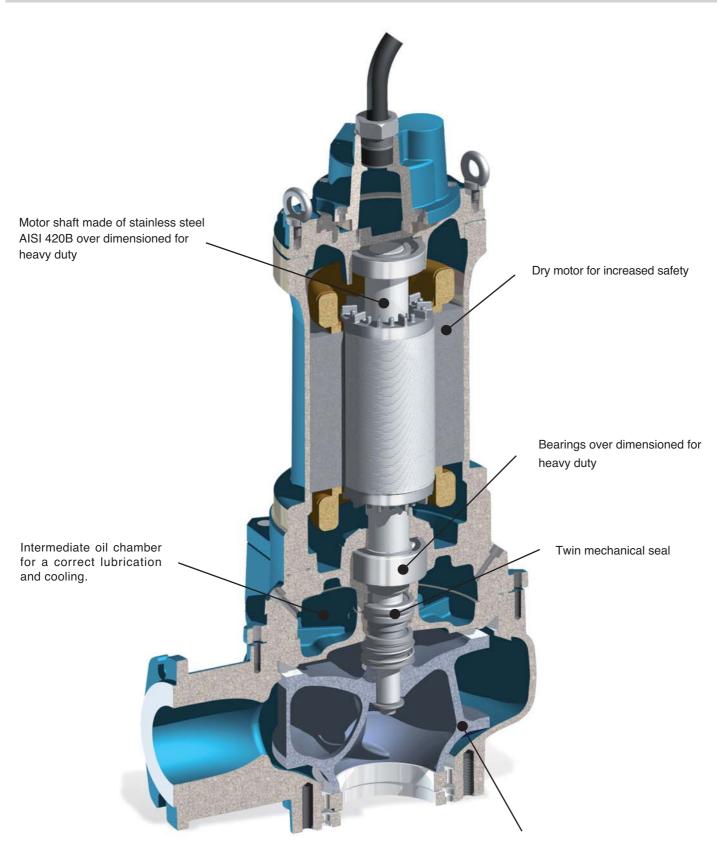
D Dry pit installation, with x-foot rest and suction bend.

Pump equipped with cooling jacket.





Features

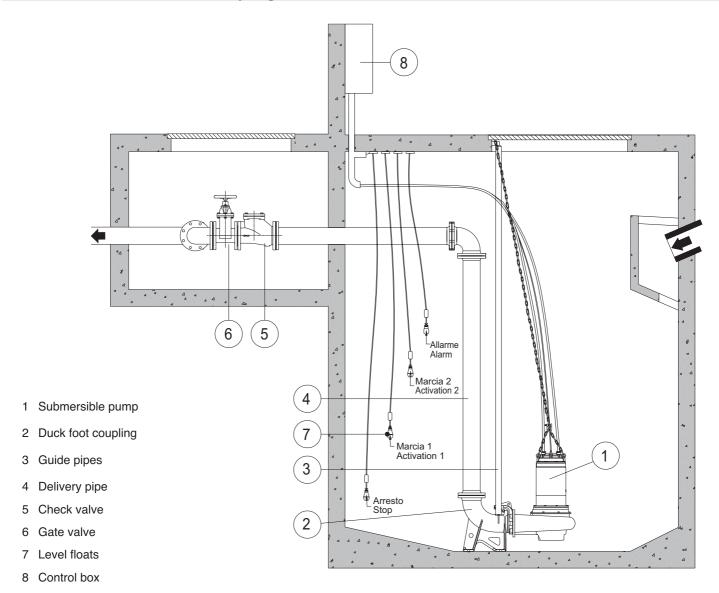


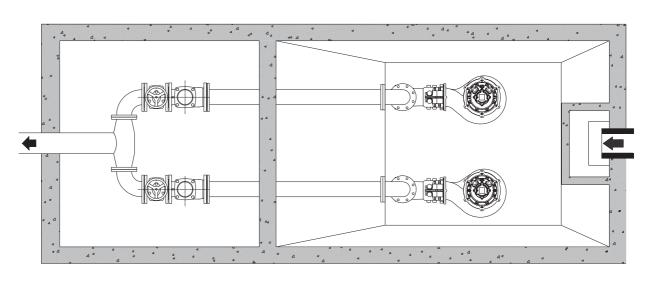
Impellers and volutes are developed to optimize the hydraulic efficiency and provide a clear exit for filamentous and solid materials.

Submersible pumps



Installation with duck foot coupling







Accessories

Non-return ball valves

Construction

Non-return self-cleaning ball valves, suitable for dirty and viscous liquids, sewage water.

Operating conditions

Working temperature from -10°C up to +80°C

Rated pressure: 10 bar

Vertical or horizontal installation

Materials

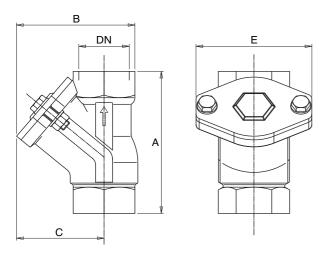
Valve body: Cast iron EN-GJL-250 Cover: Cast iron EN-GJL-250 Ball: Resin for threaded VNRP

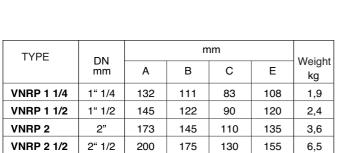
> Resin + nitril for VNRP DN 50-100 Cast iron + nitril for VNRP DN 125-250

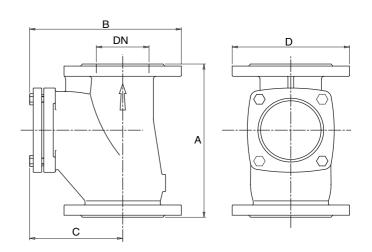
Screws: SS AISI 304

Joint: nitril

Dimensions







TYPE	DN mm	mm				Mojaht
		Α	В	С	D	Weight kg
VNRP 50	50	182	192	120	165	9,5
VNRP 65	65	204	215	124	185	14
VNRP 80	80	260	250	150	200	19,5
VNRP 100	100	300	290	180	220	23,5
VNRP 125	125	350	340	215	250	36
VNRP 150	150	400	388	245	285	38,5
VNRP 200	200	500	480	310	340	69