

An ISO 9001, ISO 14001 & OHSAS 18001 Company



C.R.I. PUMPS

Pumping trust. Worldwide.



i-Tech
ITALIAN
TECHNOLOGY

**WASTE WATER
SUBMERSIBLE
PUMPS**



THE CHANGE AGENT

Powered by technology and the spirit of innovation, C.R.I. has always set the benchmark when it comes to quality and performance. C.R.I. has what it takes experience, expertise, commitment and a clear vision to be a precursor of change, an innovator of new technologies and a standard bearer for quality.

Today, C.R.I. is a multi-winged organization that produces different varieties of pumps and motors that are engineered to perfection. The name C.R.I. itself encapsulates the company's ethos: "Commitment, Reliability, Innovation" and it has now become a household name associated with pumping solutions.

THE DAWN

The C.R.I. success story began in the year 1961 with the manufacture of irrigation equipment at an in-house foundry with very limited facilities. There has been no looking back since then. Today, C.R.I. is one of the leading names in the manufacture of pumping systems globally with the vision and the capability to be counted as one among the top global pump companies.

With its comprehensive range of products over 2300 models C.R.I. is catering to diverse customer profiles including Residential, Agriculture, Industries, Building services, General Water supply, Mining, Oil & Gas, Sewage & Waste Water and Coal Bed Methane applications.



QUALITY KNOWS NO BOUNDRIES

C.R.I.'s unwavering determination had made us a strong presence in more than 120 countries. With a solid production capacity of over 3 million pumps per annum C.R.I. has been rated as one among the best brands worldwide. Besides in recognition of its pioneering efforts and contribution to the cause of progress and quality C.R.I. has been honored with many prestigious awards including: Export Excellence Award for 12 times since 2003. The ISO 9001, 14001 and OHSAS 18001 certified company, spanning across 300,000 sq.mtr. covered area, has a strong R & D wing recognised by Ministry of science & technology which is one of the best in the world and are equipped with the latest in technology for research and design. C.R.I. constantly upgrades the product features to match with the ever changing market trend & customer needs.





VISION, MISSION AND VALUES

To be the industry leader providing best-in-class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of commitment, reliability and innovation.

RECOGNITIONS OF MERIT

C.R.I.'s dream never ends with laurels and adulations. We are on an unending mission to upgrade and innovate concepts and solutions for a much better living, where sophistication, quality and reliability reach higher altitudes. Our each action is inspired by truly good intentions. No wonder why several prestigious awards decorate our shelves.

WELL CONNECTED

- Manufacturing companies in 11 countries
- 5000 plus channel Partners
- More than 1500 Authorized Service Centers
- Sold in more than 120 Countries





INVESTMENT IS A COMMITMENT

The infrastructure defines the company and its quality. No other reason we have to highlight for installing sophisticated pieces of equipment inside an up-to-the-minute state-of-the-art ambience. As the proof of our long term planning, this investment with an unambiguous foresight continues to drive up productivity, drives down costs, enables communications, meets consumer needs and keeps our growth upward and healthy. This makes us the leader in the pump industry.



ROBOTICS

METAL MEETS METTLE

With a production capacity of over 16000 metric tons per annum, our state-of-the-art steel foundry ensures the availability of first-rate castings to meet our requirements. And this results in finer quality products from C.R.I.





- SUBMERSIBLE PUMPS VORTEX IMPELLER

- ELETTROPOMPE SOMMERGIBILI GIRANTE VORTEX

- ПОГРУЖНЫЕ ЭЛЕКТРОНАСОСЫ С ВИХРЕВЫМ РАБОЧЕЕ КОЛЕСО

- ELECTROPOMPES SUBMERSIBLES ROUE VORTEX

- BOMBAS SUMERGIBLES TURBINA VORTEX

- BOMBAS ELÉCTRICAS SUBMERGÍVEIS GIRATÓRIA A VÓRTICE



G Series

PAGE
20 - 53

G Series **G Series**
0.5 - 5.5 kW **1.2 - 48 kW**

- DISCHARGE SIZE
- MANDATA
- ВЫХОДНОЕ ОТВЕРСТИЕ
- DIAM. REFOULEMENT
- DIÁMETRO IMPULSIÓN
- DIÂMETRO BOCA

1"1/2 - 2"1/2 **DN 65-100**
DN 50-65

- FLOW
- PORTATA
- ПРОИЗВОДИТЕЛЬНОСТЬ
- DÉBIT
- CAUDAL
- CAPACIDADE

1-28 l/s **4-608 l/s**

- SUBMERSIBLE PUMPS GRINDER

- ELETTROPOMPE SOMMERGIBILI TRITURATORI

- ПОГРУЖНЫЕ ЭЛЕКТРОНАСОСЫ С ИЗМЕЛЬЧИТЕЛЕМ

- ELECTROPOMPES SUBMERSIBLES AVEC DILACÉRATEUR

- BOMBAS SUMERGIBLES TURBINA CON TRITURADOR

- BOMBAS ELÉCTRICAS SUBMERGÍVEIS COM SISTEMA TRITURADOR



GT Series

PAGE
54 - 63

Gt Series
0.75 - 9.5 kW

- DISCHARGE SIZE
- MANDATA
- ВЫХОДНОЕ ОТВЕРСТИЕ
- DIAM. REFOULEMENT
- DIÁMETRO IMPULSIÓN
- DIÂMETRO BOCA

1"1/2 - DN 50

- FLOW
- PORTATA
- ПРОИЗВОДИТЕЛЬНОСТЬ
- DÉBIT
- CAUDAL
- CAPACIDADE

GT 1 **4.5 l/s**
RS 1 **11 l/s**

- SUBMERSIBLE PUMPS SINGLE CHANNEL IMPELLER

- ELETTROPOMPE SOMMERGIBILI GIRANTE MONOCANALE

- ПОГРУЖНЫЕ ЭЛЕКТРОНАСОСЫ С ОДНОКАНАЛЬНЫМ РАБОЧИМ

- ELECTROPOMPES SUBMERSIBLES ROUE MONOCANAL

- BOMBAS SUMERGIBLES TURBINA MONOCANAL

- BOMBAS ELÉCTRICAS SUBMERGÍVEIS GIRATÓRIA MONO-CANAL



MC Series

PAGE
64 - 77

MC - 3" **MC - 3" - 4" - 6"**
1 - 5.5 kW **1.25 - 34 kW**

- DISCHARGE SIZE
- MANDATA
- ВЫХОДНОЕ ОТВЕРСТИЕ
- DIAM. REFOULEMENT
- DIÁMETRO IMPULSIÓN
- DIÂMETRO BOCA

DN 80 **DN 80-100-150**

- FLOW
- PORTATA
- ПРОИЗВОДИТЕЛЬНОСТЬ
- DÉBIT
- CAUDAL
- CAPACIDADE

3-22 l/s **5-140 l/s**

- SUBMERSIBLE PUMPS MULTI-CHANNEL IMPELLER

- ELETTROPOMPE SOMMERGIBILI GIRANTE BICANALE

- ПОГРУЖНЫЕ ЭЛЕКТРОНАСОСЫ С ДВУХКАНАЛЬНЫМ РАБОЧИМ КОЛЕСОМ

- ELECTROPOMPES SUBMERSIBLES

- BOMBAS SUMERGIBLES

- BOMBAS ELÉCTRICAS SUBMERGÍVEIS



KC Series

PAGE
78 - 91

KC
10.5 - 185 kW

- DISCHARGE SIZE
- MANDATA
- ВЫХОДНОЕ ОТВЕРСТИЕ
- DIAM. REFOULEMENT
- DIÁMETRO IMPULSIÓN
- DIÂMETRO BOCA

DN 150-200-250-300-400

- FLOW
- PORTATA
- ПРОИЗВОДИТЕЛЬНОСТЬ
- DÉBIT
- CAUDAL
- CAPACIDADE

20-700 l/s

- SUBMERSIBLE PUMPS
SINGLE CHANNEL
IMPELLER

- ELETTROPOMPE
SOMMERGIBILI
GIRANTE
MONOCANALE

- ПОГРУЖНЫЕ
ЭЛЕКТРОНАСОСЫ
С ОДНОКАНАЛЬНЫМ
РАБОЧИМ

- ELECTROPOMPES
SUBMERSIBLES
ROUE MONOCANAL

- BOMBAS
SUMERGIBLES
TURBINA
MONOCANAL

- BOMBAS ELÉCTRICAS
SUBMERGÍVEIS
GIRATÓRIA
MONO-CANAL



MA Series

PAGE 92 - 96

MA
0.6 - 2.6 kW

- DISCHARGE SIZE
- MANDATA
- ВЫХОДНОЕ ОТВЕРСТИЕ
- DIAM. REFOULEMENT
- DIÁMETRO IMPULSIÓN
- DIÁMETRO BOCA

DN 50

- FLOW
- PORTATA
- ПРОИЗВОДИТЕЛЬНОСТЬ
- DÉBIT
- CAUDAL
- CAPACIDADE

2-56 l/s

- SUBMERSIBLE
AGITATORS
AND MIXERS

- AGITATORI E
MISCELATORI
SOMMERGIBILI

- ПОГРУЖНЫЕ
ПЕРЕМЕШИВАТЕЛИ

- AGITATEURS
ET MÉLANGEURS
SUBMERSIBLES

- AGITADORES
Y MEZCLADORES
SUMERGIBLES

- AGITADORES
E MISTURADORES
SUBMERSÍVEIS



AG Series

PAGE 106-109

AG
0.8 - 22 kW

- FLOW
- PORTATA
- ПРОИЗВОДИТЕЛЬНОСТЬ
- DÉBIT
- CAUDAL
- CAPACIDADE

1.5-10 m

- SUBMERSIBLE
AGITATORS
AND MIXERS

- AGITATORI E
MISCELATORI
SOMMERGIBILI

- ПОГРУЖНЫЕ
ПЕРЕМЕШИВАТЕЛИ

- AGITATEURS
ET MÉLANGEURS
SUBMERSIBLES

- AGITADORES
Y MEZCLADORES
SUMERGIBLES

- AGITADORES
E MISTURADORES
SUBMERSÍVEIS



MD Series

PAGE 110-116

TP Series

MD
0.8 - 18.5 kW

- FLOW
- PORTATA
- ПРОИЗВОДИТЕЛЬНОСТЬ
- DÉBIT
- CAUDAL
- CAPACIDADE

320-6702 m³/h

- SUBMERSIBLE PUMP
SEMI OPEN, SINGLE
CHANNEL, VORTEX
IMPELLER

- POMPA SOMMERGI-
BILE, APERTO SEMI,
A SINGOLO CANALE,
GIRANTE VORTEX

- ПОГРУЖНОЙ
НАСОС,
ПОЛУОТКРЫТОЕ,
ОДНОКАНАЛЬНЫЙ
РАБОЧЕЕ КОЛЕСО

- POMPE SUBMERS-
IBLE, SEMI-OU-
VERTE, À UNE VOIE,
TOURBILLON À
VORTEX

- BOMBA SUMERG-
IBLE, SEMI-ABIERTA,
DE UN SOLO CANAL,
IMPULSOR VORTEX

- BOMBA SUBMERSÍ-
EL, SEMI-ABERTO,
CANAL ÚNICO, VOR-
TEX IMPELLER



SAN Series

PAGE 117-130

SAN
2.2 - 800 kW

- DISCHARGE SIZE
- MANDATA
- ВЫХОДНОЕ ОТВЕРСТИЕ
- DIAM. REFOULEMENT
- DIÁMETRO IMPULSIÓN
- DIÁMETRO BOCA

DN 50 - DN 800

Accessories

PAGE 131-145

Applications

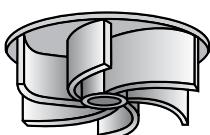
The choice of suitable impeller is critical for safe and economic operation of lifting equipment. The shape of the impeller to choose depends on the type of fluid to convey, by size and by the amount of solids contained in it and from the viscosity.

Применение

Выбор подходящего рабочего колеса имеет решающее значение для безопасной и экономичной работы насоса. Выбор формы рабочего колеса зависит от типа перекачиваемой жидкости, наличия твердых веществ, их размера, количества, а также вязкости жидкости.

Aplicaciones

La elección del impulsor adecuado es fundamental para la operación segura y económica de aparatos de elevación. La forma del rodamiento a elegir depende del tipo de fluido para transmitir, por tamaño y por la cantidad de sólidos contenidas en ella y la viscosidad.



Vortex: vortex impeller suitable for lifting of sewage liquids, civil waste and industrial water containing solids and viscous materials, heavy muds raw or fermented sludge.

Applications: urban sewage plants, lifting water plants.

Feature : High head - High performance - Wide free passage

Вихревое: Насосы с вихревым рабочим колесом (типа VORTEX) подходят для подъема канализационных и сточные воды промышленного и гражданского назначения, с содержанием твердых частиц, вязкой грязи и биологически активного осадка.

Применение: канализационные системы, перекачивание жидкостей.

Высокий напор - высокая производительность - большой свободный проход.

Vortex: turbina vortex para bombeo de aguas residuales e industriales que contienen sólidos en suspensión fangos pesados y fangos activos o fermentados

Altas prevalencia alta eficacia grandes pasos libres

Applicazioni

La scelta della girante adatta è fondamentale per un funzionamento economico e sicuro dell'impianto di sollevamento. La forma della girante da scegliere dipende dal tipo di liquido da convogliare, dalla grandezza e dalla quantità dei corpi solidi in esso contenuti e dalla viscosità.

Applications

Le choix de la roue appropriée est essentiel pour l'opération sûre et économique de l'équipement de levage. La forme de la roue à choisir dépend du type de fluide à transmettre, par la grandeur et la quantité des matières solides contenues dans elle et de la viscosité.

Aplicações

A escolha do impulsor adequada é fundamental para o funcionamento econômico e seguro da instalação de bombeamento. A forma do impulsor a ser escolhido depende do tipo de líquido a ser bombeado, do tamanho e da quantidade dos corpos sólidos nele contidos e da sua viscosidade.

Vortex: girante a vortice per sollevamento acque di fognatura, acque di rifiuto civile e industriale contenenti solidi in sospensione e viscosi, fanghi pesanti grezzi o fermentati, fanghi attivi.

Impieghi: impianti di fognatura, impianti di sollevamento.

Alta prevalenza - Altí rendimenti - Amplos orifícios de passagem

Vortex: roue vortex pour le levage des eaux usées civiles et industrielles contenant des matières solides en suspension et visqueux, boues brut fermentées et boues activées

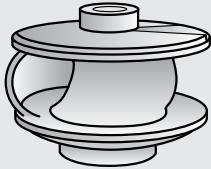
Applications: systèmes d'égouts, équipement de levage.

Hauter élevée, haut rendement - Grande passage libre

Vortex: giratória vortex para levantamento das águas de esgoto, águas de descarga civil e industriais que contenham sólidos em suspensão e líquidos viscosos, lamas pesadas não tratadas ou fermentadas, lamas ativadas.

Usos: redes de esgotos, instalações de levantamento.

Potência elevada - Altos rendimentos-Amplos orifícios de passagem



Single-Channel: Non - Clog Single channel impeller with large free passages. High hydraulic efficiency , resistance to wear and low mechanical action on pump liquid make this pump series particularly suitable for treatment of rain water, sewage water containing solids, fibrous and abrasive liquid, active and industrial sludge.

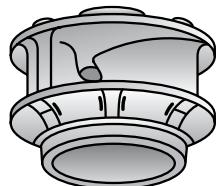
Applications: sewage stations and industrial treatments plants

Одноканальное Рабочее Колесо:

благодаря сферической форме нет засорения крыльчатки, имеет большой свободный проход. Высокая гидравлическая эффективность, устойчивость к износу и низкое механическое воздействие со стороны перекачиваемой жидкости делают насосы этой серии особенно подходящими для подъема дождевой воды с содержанием смешанных и твердых частиц, с абразивными и волокнистыми включениями.

Применение: водоочистные станции, установки очистки воды.

Monocanal: turbina monocanal anti-bloqueo debido a los pasos esféricas grandes. La alta eficacia hidráulica, la resistencia contra el desgaste y la acción mecánica bajo en el líquido bombeado hacer las bombas son particularmente adecuados para la elevación del agua de lluvia, y residuos mezclados que contiene sólidos, fibras abrasivas, lodos activados y industriales
Aplicaciones: plantas de tratamiento y tratamiento de aguas industriales.



Multi-Channel: closed multi-channel impeller resistant to wear and suitable for lifting of rain water, mixed liquids and waste water without gas, solids and fibrous materials.

Applications: civil and industrial applications, sewage lighting plants, treatment water plants.

Многоканальное Рабочее Колесо:

насосы с закрытым многоканальным износостойким рабочим колесом являются подходящими для подъема дождевой воды, смешанных жидкостей и сточных вод без твердых частиц и волокнистых включений.

Применение: на гражданских и промышленных объектах, канализационные станции, установки для очистки воды.

Multicanal: turbina serrada multicanal resistente al desgaste para bombear aguas limpias o cargadas sin presencia de cuerpos filamentos o gas.

Aplicaciones: instalaciones civiles e industriales, estaciones de bombeo de aguas residuales, plantas de tratamiento de aguas y filtradas.

Monocanale: girante monocanale anti-intasamento grazie ai larghi passaggi sferici. L'elevato rendimento idraulico, la resistenza contro l'usura e la bassa azione meccanica sul liquido pompato rendono le pompe di questa serie particolarmente adatte per il sollevamento di acque piovane, miste e di scarico contenenti solidi, fibre abrasive, fanghi attivi e industriali.

Impieghi: impianti di depurazione, e trattamento acque industriali.

Monocanal: roue monocanal anti-colmatage dû à les grandes passage sphériques. L' haut rendement hydraulique, la résistance contre l'usure et la faible action mécanique sur le liquide pompé faire les pompes particulièrement appropriés pour la levée de l'eau de pluie, et les déchets mélangés contenant des solides, des fibres abrasifs, boues activées et industriels.
Applications: stations d'épuration, et traitement des eaux industrielles.

Monocanal: giratória monocanal anti-entupimento, graças a largos orifícios esféricos O elevado rendimento hidráulico e a resistência contra o desgaste e a baixa ação mecânica do líquido bombeado tornam as bombas desta série especialmente indicadas para o levantamento de águas pluviais, mistas e de descarga que contenham sólidos, fibras abrasivas, lamas ativadas e industriais.

Usos: instalações de depuração e tratamento de águas industriais.

Bicanale: girante chiusa multicanale resistente all'usura è adatta al sollevamento di acque piovane, miste e di scarico esenti da gas, corpi solidi e fibrosi.

Impieghi: installazioni civili e industriali, stazioni di sollevamento fognario, impianti di depurazione e trattamento acque griglie.

A Caneaux: roue fermée multi canal résistant à l'usure est approprié pour soulever l'eau de pluie, mixte et libre de des gaz d'échappement, et des matières solides et fibreuses.
Applications: installations civiles et industrielles, stations de pompage des eaux usées, usines de traitement des eaux grillées.

Bicanal: giratória fechado multicanal resistente ao desgaste, adequado para o levantamento de águas pluviais, mistas e de descarga isentas de gás, corpos sólidos e fibrosos.

Usos: instalações civis e industriais, estações de levantamento de esgoto, instalações de depuração e tratamento de águas filtradas.



Cutting Device: cutting device suitable to reduce into little pieces solids contained into liquids. This device permit the use of small pipes without risk of clogging. Either the fixed part and the movable are built in a special stainless steel.
Applications: food industry, textile and agricultural irrigation

Режущий Механизм: насосы с режущим устройством предназначены для измельчения твердых частиц и длинноволокнистых включений в жидкостях. Это позволяет использовать для перекачивания жидкости трубы малых диаметров без риска их засорения. Неподвижная и врачающаяся части выполнены из нержавеющей стали.
Применение: пищевая промышленность, текстильная промышленность и сельскохозяйственные ирригационные системы.

Triturador: grupo triturador para reducir piezas en pedazos muy pequeños sólidos en suspensión. Esto permite el uso de tubos pequeños sin el riesgo de obstrucción. Sistema triturador en acero inoxidable tratado.
Aplicaciones: industria de alimentos, textiles y sistemas de riego agrícola

Trituratore: dispositivo di tritazione atto a ridurre in parti molto piccole solidi in sospensione. Questo permette l'uso di piccole tubazioni senza rischio di intasamento. Sia la parte fissa che quella mobile sono costruite con uno speciale acciaio inossidabile.

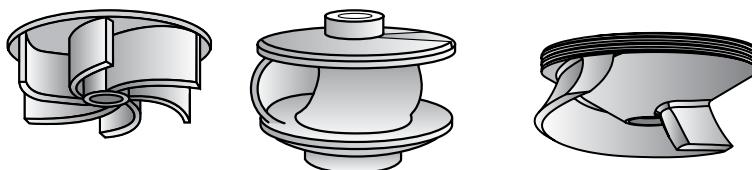
Impieghi: industria alimentare, tessile e impianti di irrigazione agricola

Dilacérateur: Dispositif de broyage approprié pour réduire en particules très petites matières solides en suspension. Ce qui permet l'utilisation de petits tubes sans risque de colmatage. Tant la partie fixe que la mobile sont faites d'un acier inoxydable spécial.

Applications: industrie de alimentation, textiles et systèmes d'irrigation agricole.

Triturador: dispositivo de trituração apto a reduzir em partes muito pequenas os sólidos em suspensão. Isso permite o uso de pequenas tubulações, sem o risco de entupimento. Tanto a parte fixa quanto a parte móvel são feitas de aço inoxidável especial.

Usos: indústria alimentar, têxtil e instalações de irrigação agrícola



Agitators: The turbulence created by the agitator prevents the formation of incrustations on the surface of the water and remove any build-up deposited at the bottom
Applications: Wells and rainwater collection basins

Мешалки: Тurbulentность, созданная «шайкером», предотвращает образование корки на поверхности воды и удаляет любые отложения на дне.
Применение: в колодцах и бассейнах для сбора дождевой воды

Agitadores: La turbulencia creada dal'agitatore impide la formación de incrustaciones sobre la superficie del agua y elimina cualquier acumulación depositado.
Aplicaciones: pozos y captaciones de agua de lluvia

Agitatori: la turbolenza creata dal'agitatore miscelatore, previene la formazione di incrostazioni sulla superficie dell'acqua e rimuove eventuali accumuli depositati.

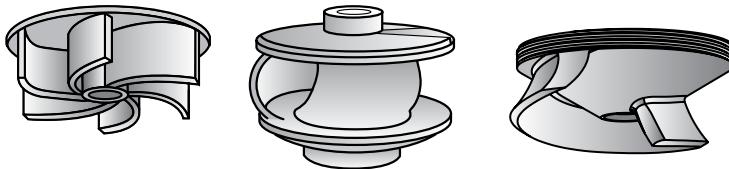
Impieghi: pozzi e bacini di raccolta acque piovane

Agitateurs: La turbulence créée par l'agitateur , prévient la formation d'incrustations sur la surface de l'eau et ôte éventuels cumules déposés.

Applications: Puits et bassins de collecte des eaux de pluie

Agitadores: a turbulência criada pelo agitador e misturador previne a formação de encrostações sobre a superfície da água e remove eventuais acúmulos depositados.

Usos: poços e bacias de coleta de água pluvial, para evitar o acúmulo de sólidos e lama no fundo.



Monobloc: Vortex - Single Channel - Spiral

Cleaning and water treatment, pumping stations, denitrification-nitrification, mud circulation. Textile, paper, metallurgical, mechanics, store, food, sugar, breed, ceramic industry.

Моноблок: Вихревой Одноканальный - Спиральный

Применение: очистка жидкостей в водоочистных установках, насосные станции, денитрификация - нитрификация, рециркуляции грязей (осадков) и др. Промышленность: текстильная, металлургическая, бумажная, пищевая (сахар, хлебобулочные изделия), керамическая.

Monobloc: Vortex - Monocanal - Espiral

Alcantarillado/tratamiento de aguas, manejo de líquidos en las plantas de tratamiento de aguas, estaciones de bombeo en la nitrificación/desnitrificación, recirculación de lodos, etc.

Industria: Textil - papel - acero - mecánica - conservas - azúcar en los alimentos de las granjas - cerámica

Monoblocco: Vortex - Monocanale - Spirale

Depurazione/trattamento acqua, movimentazione di liquidi in impianti di trattamento delle acque, in stazioni di pompaggio-denitrificazione-nitrificazione, ricircolo fanghi ecc.

Industria: tessile - cartaria - siderurgica - meccanica - conserviera - alimentare - zuccherifici - allevamenti - ceramica ecc.

Monobloc: Vortex - Monocanal - Spiral

Traitement des eaux usées et des liquides dans les usines de traitement d'eau, stations de pompage, nitrification-dénitrification, la recirculation des boues, etc.

Secteur: Textile - papier - acier - mécanique - la mise en conserve - la nourriture - sucre - fermes - céramique

Monobloco: Vortex - Monocanal - Espiral

Depuração/tratamento de água, movimentação de líquidos em instalação de tratamento de águas, em estações de bombeamento-desnitriificação-nitrificação, recirculação de lamas, etc.

Indústria: têxtil - do papel - siderúrgica - mecânica - de conservação - alimentar - refinarias de açúcar - criação de animais - cerâmica, etc.



Mixers

Propeller: Three-blades propeller for mixing and suspension of all types of liquids and sludge.

Applications: mixing up and handling of liquids with suspended solids, mixtures of high viscosity liquids, chemical industry

Смесители

Три лопасти винта для смещивания жидкостей и суспензии.

Применение: перемешивание жидкостей с большим содержанием взвешенных веществ, смещивание жидкостей высокой вязкости, химическая промышленность.

Mélangeurs

Hélice: hélice à trois pales pour mélange et suspension de boues de tout type de liquide.

Applications: homogénéisation et de manutention liquides usés avec des solides en suspension, des mélanges de liquides à viscosité élevée, industrie chimique

Miscelatori

Elica: elica a pale per la miscelazione e sospensione di liquidi e fanghi di ogni tipo.

Impieghi: omogeneizzazioni e movimentazione di liquidi carichi con solidi in sospensione, mescole di liquidi ad alta viscosità, industria chimica.

Mélangeurs

Hélice: hélice à trois pales pour mélange et suspension de boues de tout type de liquide.

Applications: homogénéisation et de manutention liquides usés avec des solides en suspension, des mélanges de liquides à viscosité élevée, industrie chimique

Misturadores

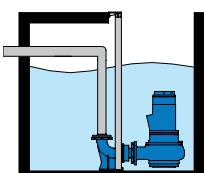
Hélice: hélice com três pás para a mistura e suspensão de líquidos e lamas de qualquer tipo.

Usos: nas homogeneizações e na movimentação de líquidos carregados de sólidos em suspensão, misturas de líquidos de alto grau de viscosidade na indústria química.

	ENGLISH	ITALIANO	RUSSO	FRANCESE	SPAGNOLO	PORTOGHESE
P1	max. motor input	max. potenza assorbita	максимальная входная мощность	consommation électrique maximale	consumo máximo de energía	consumo de potência máximo
P2	motor nominal power	potenza nominale motore	номинальная мощность двигателя	puissance nominale moteur	Potencia nominal del motor	Potência nominal do motor
H	head	prevalenza	напор	hauteur	altura	prevalência
Q	flow	portata	производительность	débit	caudal	capacidade
f	spherical clearance	passaggio libero	свободный проход	passage libre	paso libre	passagem livre

MATERIAL OF CONSTRUCTION MATERIALI COSTRUTTIVI КОНСТРУКЦИОННЫЕ МАТЕРИАЛЫ MATÉRIAUX DE CONSTRUCTION MATERIALES DE CONSTRUCCIÓN MATERIAIS DE CONSTRUÇÃO		APPLICATION LIMITS LIMITI D'IMPIEGO ЭКСПЛУАТАЦИОННЫЕ ОГРАНИЧЕНИЯ PLAGES D'UTILISATION CAMPO DE TRABAJO DOMÍNIO DE UTILIZAÇÃO
<ul style="list-style-type: none"> Pump housing Corpo Pompa Корпус насоса volute cuerpo de bomba corpo de bomba 	<ul style="list-style-type: none"> Cast iron EN-GJL-260 Ghisa EN-GJL-260 Чугун EN-GJL-260 fonte EN-GJL-260 hierro fundido EN-GJL-260 ferro fundido EN-GJL-260 	• Max. application temperature • Max. temperatura impiego • Макс. рабочая температура • température maxi de l'eau • Temperatura máxima del agua • temperatura máxima do líquido
<ul style="list-style-type: none"> motor housing Corpo Motore Корпус двигателя carter moteur cuerpo motor corpo motor 	<ul style="list-style-type: none"> Cast iron EN-GJL-260 Ghisa EN-GJL-260 Чугун EN-GJL-260 fonte EN-GJL-260 Hierro fundido EN-GJL-260 Ferro fundido EN-GJL-260 	• service • servizio • Рабочие условия • service • servicio • serviço
<ul style="list-style-type: none"> impeller Girante рабочее колесо roué impulsor giratória 	<ul style="list-style-type: none"> Cast iron EN-GJL-260 Ghisa EN-GJL-260 Чугун EN-GJL-260 Fonte EN-GJL-260 Hierro fundido EN-GJL-260 Ferro fundido EN-GJL-260 	• max. startings per hour • max. avviamenti ora • Макс. кол-во включений в час • démarriages par heure maxi. • máximo número de arranques/hora • número máximo de acendimentos por hora
<ul style="list-style-type: none"> cover Coperchio Крышка couverture tapa tampa 	<ul style="list-style-type: none"> Cast iron EN-GJL-260 Ghisa EN-GJL-260 Чугун EN-GJL-260 Fonte EN-GJL-260 Hierro fundido EN-GJL-260 Ferro fundido EN-GJL-260 	• max. immersion depth • max. profondità immersione • Макс. глубина погружения • profondeur d'immersion maxi • inmersión máxima • máxima profundidade de imersão
<ul style="list-style-type: none"> shaft Albero Вал arbre eje eixo 	<ul style="list-style-type: none"> Stainless steel X30 Cr13 (AISI420) X30 Cr13 (AISI 420) X30 Cr13 (AISI 420) Acier inox X30 Cr13 (AISI420) Acero inoxidable X30 Cr13 (AISI420) aço inoxidável X30 Cr13 (AISI420) 	• pH liquid • pH liquido • Показатель Ph жидкости • pH du liquide • pH líquido • pH líquido
<ul style="list-style-type: none"> O-rings Guarnizioni Уплотнения, уплот. Кольца joints toriques juntas gaxetas 	<ul style="list-style-type: none"> nitrile NBR НБР nitrile nitrilo nitrile 	• liquid viscosity • viscosità liquido • Вязкость жидкости • viscosité du liquide • viscosidad líquido • viscosidade de líquidos
<ul style="list-style-type: none"> cable Cavo Кабель câble cable cabo 	<ul style="list-style-type: none"> neoprene neoprene H07 RNF Неопрен néoprène neopreno neoprene 	• liquid density • densità liquido • Плотность жидкости • densité du liquide • densidad líquido • densidade de líquidos
<ul style="list-style-type: none"> screws Viteria Винты Visserie tornillos parafusos 	<ul style="list-style-type: none"> Stainless steel A2 AISI 304 INOX A2 AISI 304 (AISI420) Нерж. сталь A2 AISI 304 acier inox A2 AISI 304 acero inoxidable A2 AISI 304 aço inoxidável A2 AISI 304 	• max. noise level • max. pressione acustica • Макс. звуковое давление • pression acoustique • maxi.presión acústica máxima • pressão acústica máxima

Installation Types Варианты установки Tipos de instalación Tipi di installazione Types d'installation Tipos de instalação

1 V

Fixed installation with low level coupling type V

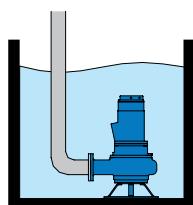
Installazione fissa con piede di accoppiamento tipo V

Погружная установка на автоматической трубной муфте типа V.

Installation fixe avec pied d'assise type V

Instalación fija con Pie de acoplamiento tipo V

Instalação fixa com pé de acoplamento tipo V

2 F

Movable installation with base stand and connection for rigid pipe

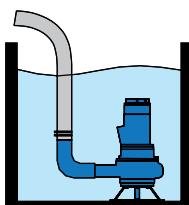
Installazione trasportabile con base di appoggio e attacco per tubo rigido

Мобильная установка на подставке с соединением для напорной трубы.

Installation transportable avec support et connection pour tuyau de refoulement rigide

Instalación transportable con base de apoyo y ataque para tubo rígido

Instalação transportável com base de apoio e engate para tubo rígido

3 G

Movable installation for flexible pipe

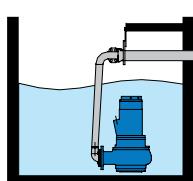
Installazione trasportabile con tubo flessibile

Мобильная установка на подставке с соединением для напорного рукава.

Installation transportable avec tuyau de refoulement flexible

Instalación transportable con manguera flexible

Instalação transportável com mangueira flexível

4 H

Fixed installation with HK system

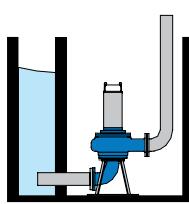
Installazione fissa con sistema HK

Стационарная погружная установка с быстрым сцеплением типа HK

Installation fixe avec système HK

Instalación fija con sistema HK

Instalação fixa com sistema HK

5 C

Dry pit vertical installation for pumps with cooling jacket

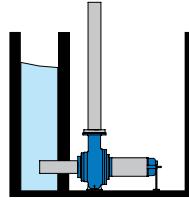
Installazione verticale in camera asciutta per pompe con camicia di raffreddamento

Сухая вертикальная установка для насоса с «рубашкой охлаждения»

Installation verticale en chambre sèche pour pompes avec système de refroidissement

Instalación vertical in cámara seca para bombas con camisa de enfriamiento

Instalação vertical em câmara seca para bombas com camisa de esfriamento

6 O

Dry pit horizontal installation for pumps with cooling jacket

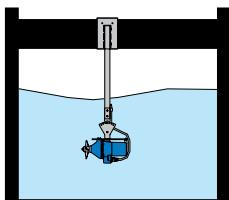
Installazione orizzontale in camera asciutta per pompe con camicia di raffreddamento

Сухая горизонтальная установка для насоса с «рубашкой охлаждения»

Installation horizontal en chambre sèche pour pompes avec système de refroidissement

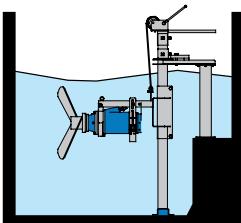
Instalación horizontal in cámara seca para bombas con camisa de enfriamiento

Instalação horizontal em câmara seca para bombas com camisa de esfriamento



11 T

Fixed installation for mixers with adjustable lifting device
Installazione fissa per miscelatori con tubo guida orientabile
Стационарная установка мешалки на направляющей трубе.
Installation fixe pour mélangeurs avec guide orientable
Instalación fija para mezcladores con tubo guía orientable
Instalação fixa para misturadores com tubo-guia orientável



12 P

Adjustable fixed installation with pole and winch
Installazione fissa orientabile con palo e argano
Стационарная установка мешалки с направляющей трубой и лебедкой.
Installation fixe avec poteau et treuil
Instalación fija orientable con poste y cabrestante
Instalação fixa orientável com poste e sarilho

PRODUCTS IDENTIFICATION CODE
CODICE IDENTIFICAZIONE PRODOTTO

ИДЕНТИФИКАЦИОННЫЙ КОД ПРОДУКТА
CODE D'IDENTIFICATION DU PRODUIT

CÓDIGO DE IDENTIFICACIÓN DE PRODUCTO
CÓDIGO DE IDENTIFICAÇÃO DO PRODUTO

XX	X	X	XXX	X	Xx	X	X																																																																
SerieS Name & impeller Type	impeller Type	kW / Hp	OuTleT Size iN mm	pHaSe / CONNeC-TiON / STarTiNG meTHOD	NO. Of pOle -	SpEcial CHaRaCTer																																																																	
<ul style="list-style-type: none"> • GB - Pumps with Curved Blade Impeller • Ga - Pumps With Staright Blade Impeller • GT - Pumps with Grinder Impeller • mC - Pumps with Closed Single Channel Impeller • KC - Pumps with Closed Multi Channel impeller • ma - Pumps with Open Single Channel impeller • Sa - Pumps with Non Clog twist impeller • aG - Agitator • mD /Tp - Mixer with Propeller 	<ul style="list-style-type: none"> V - Vortex C - Closed Single Channel L - Closed Multi Channel S - Open Single Channel N - Non Clog twist P- Mixer Propeller D - Open / Semi Open Double Channel E - Closed Double Channel A - Axial Flow M - Open / Semi Open Multi Channel 	<ul style="list-style-type: none"> • 50 HZ: 03 = 0.37,15 = 1.5, 37 = 3.7, 45 = 450, A00 = 100, A10 = 110 in kW • 60 HZ: 05 = 0.5, 10 = 1.0, 30 = 3.0, 300 = 30, A00 = 100, A50 = 150 in HP 	<ul style="list-style-type: none"> A = 25, B = 32, C = 40, D = 50, E = 65, F = 80, G = 100, H = 125, I = 150, J = 200, K = 250, L = 300, M = 350, N = 400, P = 450. 	<ul style="list-style-type: none"> • 50 Hz = M - 1 Ph, Ms - 1 Ph with control panel with manual start, T - 3 Ph / D.O.L, D - 3 Ph / S.D • 60 Hz = 3 = 1Ph , 3s -1 Ph with control panel with manual start, 4 = 3 Ph / D.O.L, 6 = 3 Ph/S.D 	<ul style="list-style-type: none"> • r - reduced Imp, RR - Further Reduced, 3R - Low head, • a - Automatic with Float switch, HF - High Flow 																																																																		
MOC																																																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">pump CaSiNG / agitator</th> <th style="text-align: center;">IMPEL-LER</th> <th style="text-align: center;">MOTOR HOUSING</th> <th colspan="5"></th></tr> </thead> <tbody> <tr> <td style="text-align: center;">C</td><td style="text-align: center;">C.I</td><td style="text-align: center;">C.I</td><td colspan="5"></td></tr> <tr> <td style="text-align: center;">G</td><td style="text-align: center;">C.I</td><td style="text-align: center;">SS(304)</td><td colspan="5"></td></tr> <tr> <td style="text-align: center;">U</td><td style="text-align: center;">SS(304)</td><td style="text-align: center;">SS(304)</td><td colspan="5"></td></tr> <tr> <td style="text-align: center;">S</td><td style="text-align: center;">SS(304)</td><td style="text-align: center;">SS(304)</td><td style="text-align: center;">SS(304)</td><td colspan="4"></td></tr> <tr> <td style="text-align: center;">R</td><td style="text-align: center;">C.I</td><td style="text-align: center;">SS(316)</td><td style="text-align: center;">C.I</td><td colspan="4"></td></tr> <tr> <td style="text-align: center;">M</td><td style="text-align: center;">SS(316)</td><td style="text-align: center;">SS(316)</td><td style="text-align: center;">C.I</td><td colspan="4"></td></tr> <tr> <td style="text-align: center;">N</td><td style="text-align: center;">SS(316)</td><td style="text-align: center;">SS(316)</td><td style="text-align: center;">SS(316)</td><td colspan="4"></td></tr> </tbody> </table>								pump CaSiNG / agitator	IMPEL-LER	MOTOR HOUSING						C	C.I	C.I						G	C.I	SS(304)						U	SS(304)	SS(304)						S	SS(304)	SS(304)	SS(304)					R	C.I	SS(316)	C.I					M	SS(316)	SS(316)	C.I					N	SS(316)	SS(316)	SS(316)				
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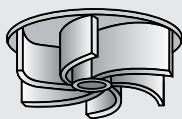
model Name & Description

50 Hz : GB-CV26-ET, 2.6 kW, 50 Hz, 3Ph, 415V, 2 pole DOL Sewage Submersible Pump
60 Hz : GB-CV44-E4, 4.4 HP, 60 Hz, 3Ph, 440V, 2 pole DOL Sewage Submersible Pump

50 Hz : KC-CL250-LT-83R, 25 kW, 50 Hz, 3Ph, 415V, 8 pole DOL Sewage Submersible Pump
60 Hz : KC-CL370-L4-E3R, 37 HP, 60 Hz, 3Ph, 415V, 8 pole DOL Sewage Submersible Pump

50 Hz : MD-RP08-T4, 0.8 kW, 50 Hz, 3Ph, 415 V, 4 Pole DOL Mixer
60 Hz : MD-RP15-4F, 1.5 HP, 60 Hz, 3Ph, 415 V, 4 Pole DOL Mixer

50 Hz : AG-C08-MR, 0.8 kW, 50 Hz, 3Ph, 415 V, 2 Pole DOL Agitator
60 Hz : AG-C15-3R, 1.5 HP, 60 Hz, 3Ph, 415 V, 2 Pole DOL Agitator



Submersible pumps

Vortex Impeller

G Series

0.5 - 5.5 kW

Discharge size

1¹/₂ - 2¹/₂ DN 50-65

Elettropompe sommergibili

Girante Vortex

Serie G

0.5 - 5.5 kW

Mandata

1¹/₂ - 2¹/₂ DN 50-65

Погружные электронасосы

С вихревым рабочим колесом

Серия G

0.5 - 5.5 kW

выходное отверстие

1¹/₂ - 2¹/₂ DN 50-65

Electropompes submersibles

Roue Vortex

Série G

0.5 - 5.5 kW

Diam. refoulement

1¹/₂ - 2¹/₂ DN 50-65

Bombas sumergibles

Turbina Vortex

Modelo G

0.5 - 5.5 kW

Diámetro impulsión

1¹/₂ - 2¹/₂ DN 50-65

Bombas eléctricas submersíveis

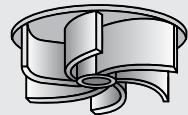
Giratória a Vórtice

Série G

0.5 - 5.5 kW

Diâmetro boca

1¹/₂ - 2¹/₂ DN 50-65



G Series

Technical features

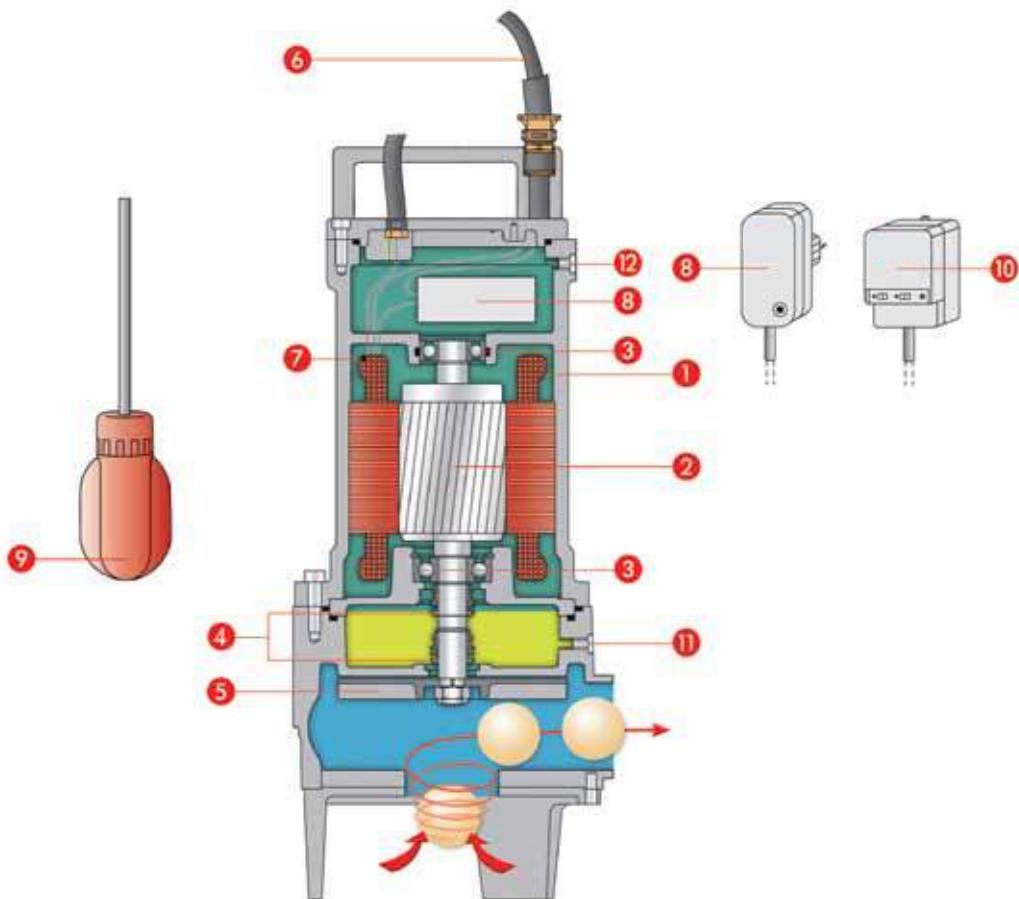
Caratteristiche costruttive

Технические характеристики

Caractéristiques de construction

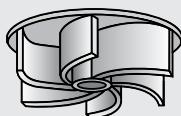
Características de construcción

Características de construção



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 2850 rpm. Voltage: single-phase 1x230V-50 Hz
Three-phase 3x380/415V-50 Hz.
Different voltage and frequency on request. ATEX certification in progress
2. Shaft in stainless steel AISI 420
3. Heavy duty bearing for long life
4. Double mechanical seal in oil chamber + radial lipseal
Water side: silicon carbide/silicon carbide
Motor side: graphite/alumina
5. Cast iron Vortex Impeller with high head
6. Cable H07RNF
7. Thermal protection standard in the single phase execution
8. Float switch regulator
9. AET-AEM electrical gear for three-phase and single-phase execution
10. Oil inspection plug
11. Air plug hole for the motor watertightness control

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP 68
Giri: 2850 al min⁻¹
Voltaggio: monofase 1x230V-50 Hz e trifase
3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta.
Certificazione ATEX in corso
2. Albero in acciaio AISI 420
3. Cuscinetti sovrardimensionati lunga vita
4. Doppia tenuta meccanica in camera d'olio + paraolio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: grafite/allumina
5. Girante Vortex in ghisa ad alta prevalenza
6. Cavo H07RNF
7. Protezione termica di serie nella versione monofase
8. Galleggiante
9. AET-AEM quadro elettrico per versione trifase e monofase
10. Ispezione olio
11. Controllo tenuta stagna motore



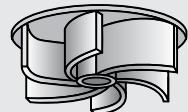
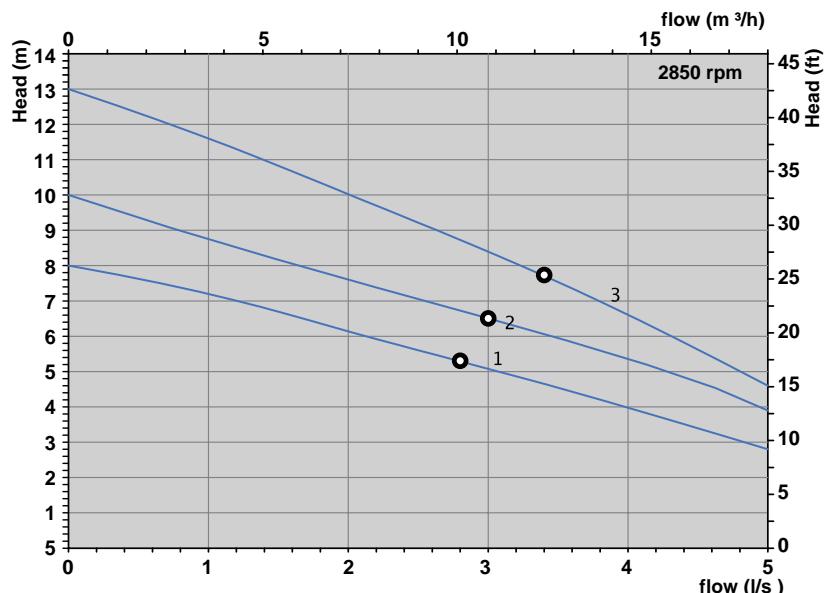
1. Полностью погружной двигатель с герметичным уплотнением. Класс изоляции Н. Класс защиты IP68. Скорость вращения: 2850 об./мин. Напряжение: монофазное 1x230 В 50 Гц и трехфазное 380/415 В 50 Гц. Другие напряжения и частота под заказ. Проходит сертификацию ATEX.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники, рассчитанные с запасом
4. Двойное мех. уплотнение в масляной камере + сальник С гидравлической стороны: карбид кремния/ карбид кремния
Со стороны двигателя: графит/оксид алюминия
5. Рабочее колесо вихревого типа из чугуна с высоким напором
6. Кабель H07RNF
7. Теплозащита серийно в монофазном варианте
8. Поплавковый выключатель
9. АЕТ-АЕМ пульт управления для трехфазного и монофазного варианта
10. Окошко для контроля масла
11. Контроль герметичности двигателя

1. Moteur entièrement submersé étanche à l'eau
Classe d'isolation H. indice de protection IP 68
Vitesse de rotation: 2850 tr/mn
Bobinage mono: 1x230V Fréquence: 50 Hz - tri:
3x380/415V Fréquence: 50 Hz
Autres tensions et fréquences sur demande.
Certification ATEX en cours
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile + joint de la garniture
Garniture inférieure: Carbure de silicium/Carbure de silicium
Garniture supérieure: graphite/allumine
5. Roue vortex en fonte à haute prévalence
6. Cable H07RNF
7. Version monophasée: protection thermique de série
8. Flotteur
9. Coffret électrique de commande AET-AEM pour mono et tri version
10. Inspection de l'huile
11. Contrôle moteur étanche à l'eau

-
1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 2850 rpm/min¹
Voltaje: monofásico 50 Hz 1x230V- trifásico 3 x 380/415V
50 Hz
Otros voltajes y frecuencias a demanda.
Certificación ATEX pendiente
 2. Eje Acero inoxidable AISI 420
 3. Cojinetes sobredimensionados lubrificados indefinidamente
 4. Doble cierre mecánico en cámara de aceite + retén de nitrilo
Carburo de silicio/Carburo de silicio en el lado agua.
Grafito/Acero templado en el lado motor.
 5. Impulsor vortex de hierro fundido a preponderancia alta
 6. Cable H07RNF
 7. Protector térmico en el bobinado, de rearme automático o manual para motores monofásicos.
 8. Interruptor de boya para funcionamiento automático
 9. AET-AEM Cuadros eléctricos para motores trifásicos o monofásicos
 10. Inspección aceite
 11. Control de motor estanco

-
1. Motor totalmente submerso estanque
Isolamentos em classe H. Grau de proteção IP 68
rpm: 2850
Tensão: monofásica e trifásica 1x230V Hz-50 Hz
3x380/415V-50
Outras tensões e frequências a pedido.
ATEX pendente
 2. Eixo em aço AISI 420
 3. Chumaceiras sobredimensionados isentas de manutenção
 4. Duplo contenção na câmara óleo pi anel de contenção NBR
contenção inferior: carboneto de silício
contenção superior: grafito/allumina
 5. Giratória a vórtice em ferro fundido a preponderância elevada
 6. Cabo H07RNF
 7. Proteção térmica da série versão monofásica
 8. Regulador de nível
 9. AET-AEM painel elétrico para versão monofásica e trifásica
 10. Inspeção de óleo
 11. Controle motor estanque

GB

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1 kW	P2 kW	Volt	μF	Amp	Giri rpm	DN	Ø mm	V	KG	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO						
		l/sec	0	1	2	3	4					m³/h	0	3.6	7.2	10.8	14.4	18
1	GB - CV05 - CM-A	0.65	0.5	230	16	3	2850	1"1/2	36	40N	14	H	8	7.2	6.1	5.1	4	2.8
1	GB - CV05 - CT	0.65	0.5	400		2	2850	1"1/2	36	40N	14		8	7.2	6.1	5.1	4	2.8
2	GB - CV06 - CM-A	0.8	0.65	230	16	4	2850	1"1/2	36	40N	14		10	8.6	7.6	6.3	5.4	3.9
2	GB - CV06 - CT	0.8	0.65	400		1.5 A	2850	1"1/2	36	40N	14		10	8.6	7.6	6.3	5.4	3.9
3	GB - CV08 - CM-AR	0.9	0.8	230	16	4.8	2850	1"1/2	36	40N	14		13	11.6	10	8.4	6.6	4.6
3	GB - CV08 - CT - R	0.9	0.8	400		1.5	2850	1"1/2	36	40N	14		13	11.6	10	8.4	6.6	4.6

DIMENSION DRAWINGS

DIMENSIONI D'INGOMBRO

ГАБАРИТНЫЕ ЧЕРТЕЖИ

DIMENSIONS D'ENCOMBREMENT

DIMENSIONES TOTALES

DIMENSÕES GLOBAIS

INSTALLATION TYPE

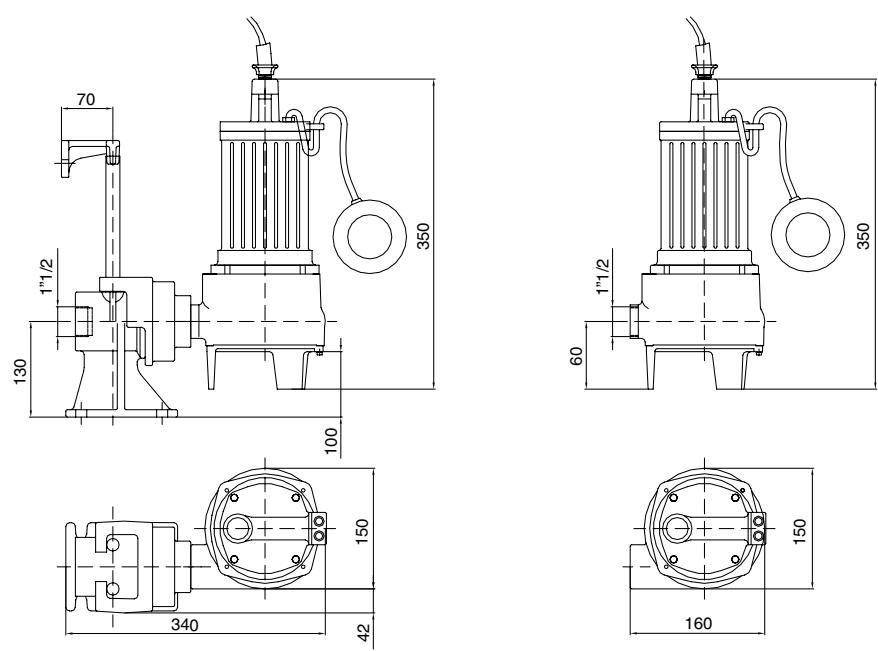
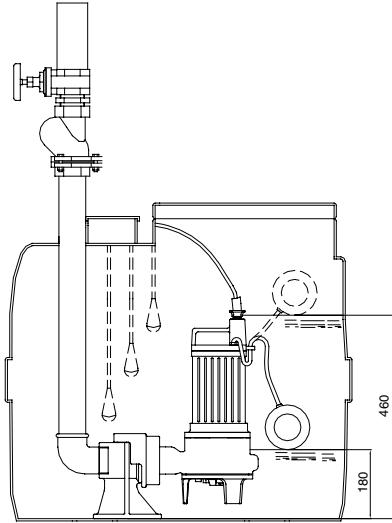
INSTALLAZIONE TIPO

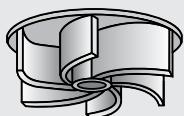
ТИПИЧНАЯ УСТАНОВКА

TYPE D'INSTALLATION

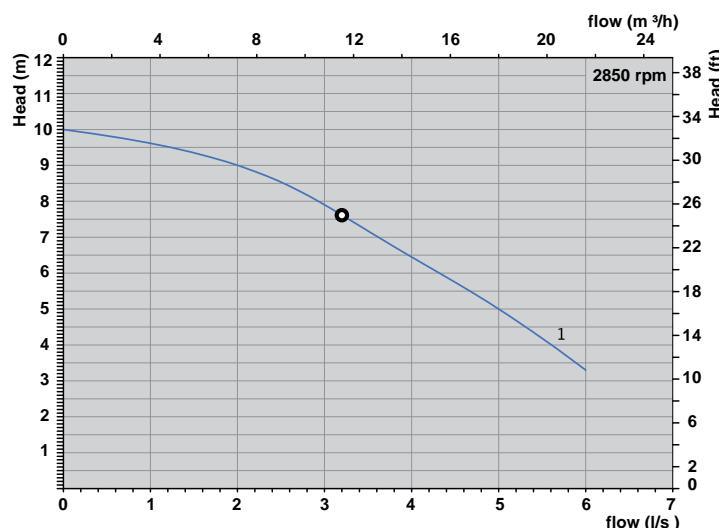
EJEMPLO DE INSTALACIÓN

EXEMPLO DE INSTALAÇÃO

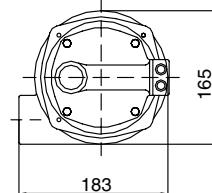
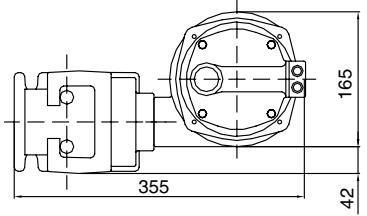
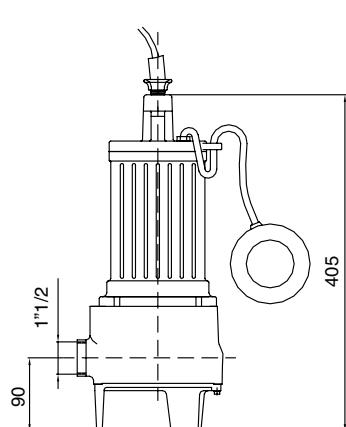
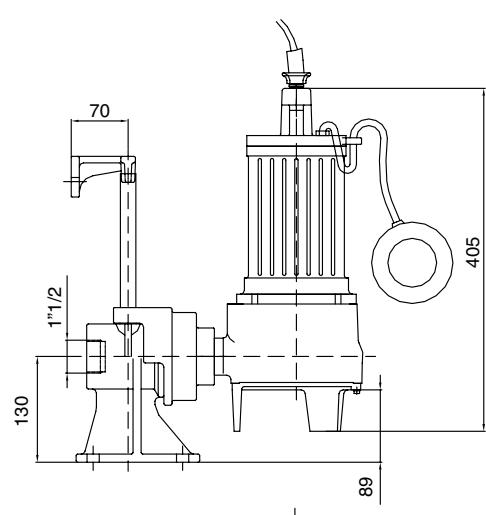
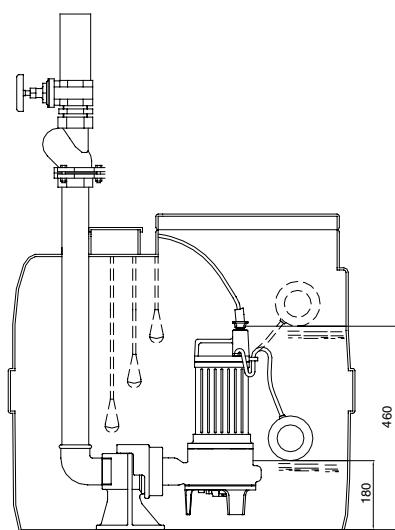




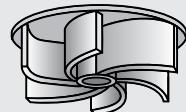
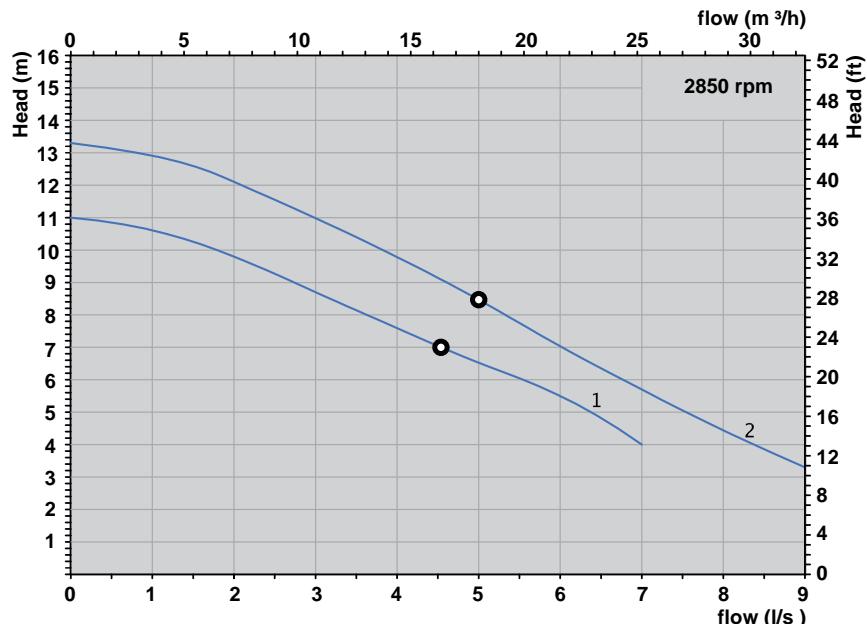
GB

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAISPERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ
PERFORMANCES - RENDIMENTO - EXECUÇÃO

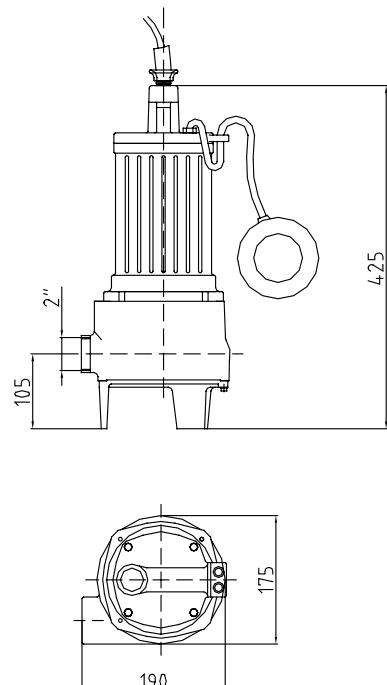
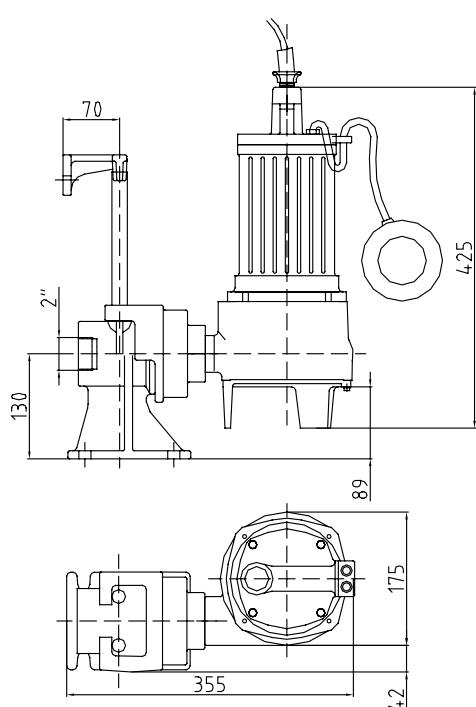
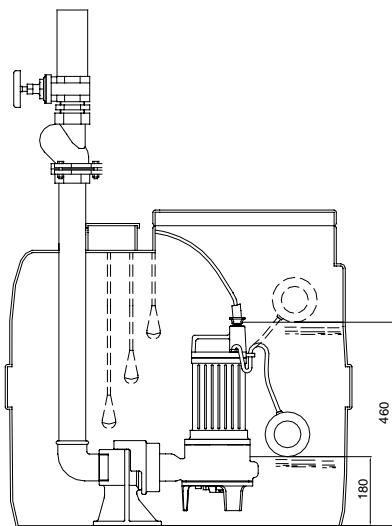
Nr	Modello - Type	P1 kW	P2 kW	Volt	μF	Amp	Giri rpm	DN	Ø mm	V	KG	l/sec	0	1	2	3	4	5	6	7
1	GB - CV08 - CM-A	1.1	0.8	230	22	5	2850	1"1/2	36	40N	20	m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2
1	GB - CV08 - CT	1.1	0.8	400		2	2850	1"1/2	36	40N	20	H	10	9.6	9	7.9	6.4	5	3.3	
												m	10	9.6	9	7.9	6.4	5	3.3	

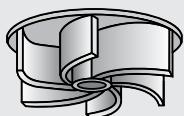
DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAISINSTALLATION TYPE
INSTALLAZIONE TIPO
ТИПИЧНАЯ УСТАНОВКА
TYPE D'INSTALLATION
EJEMPLO DE INSTALACIÓN
EXEMPLO DE INSTALAÇÃO

GB

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS											
Nr	Modello - Type	P1 kW	P2 kW	Volt	μF	Amp	Giri rpm	DN	Ø mm	V	KG
1	GB - CV08 - DM-AR	1.1	0.8	230	22	5	2850	2"	45	50N	24
1	GB - CV08 - DT - R	1.1	0.8	400		2	2850	2"	45	50N	24
2	GB - CV12-DMS-AR	1.7	1.2	230	30	7.4	2850	2"	45	50N	24
2	GB - CV12 - DT - R	1.7	1.2	400		2.5	2850	2"	45	50N	24

PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ
PERFORMANCES - RENDIMENTO - EXECUÇÃODIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONS TOTALES
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EJEMPLO DE INSTALACIÓN
EXEMPLO DE INSTALAÇÃO



Technical features

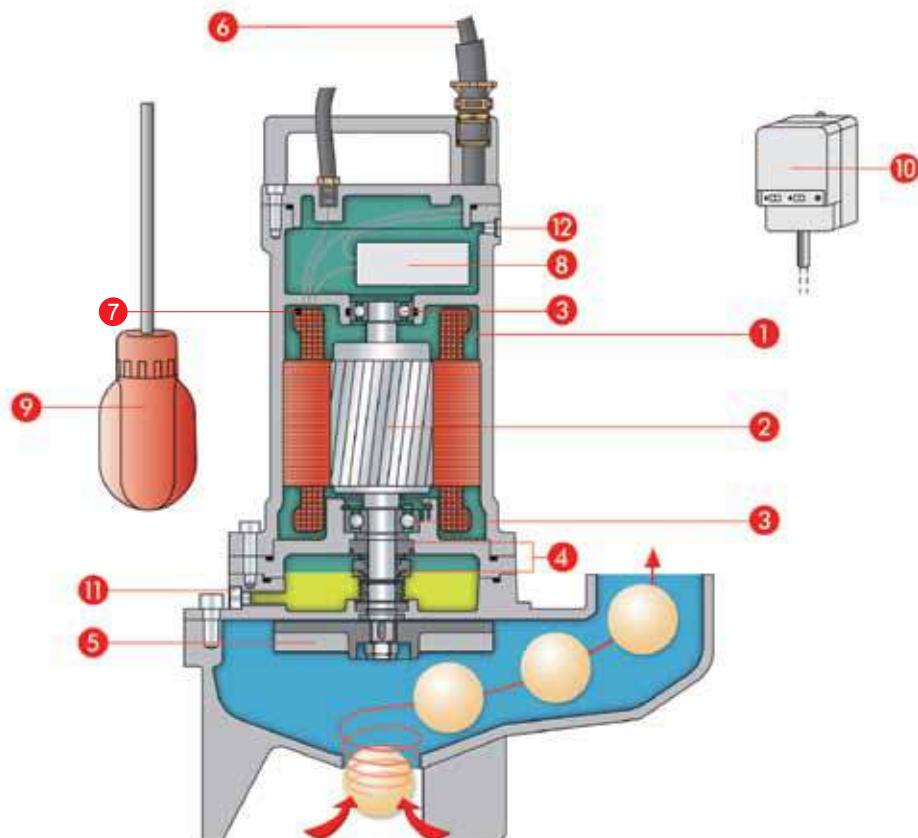
Caratteristiche costruttive

Технические характеристики

Caractéristiques de construction

Características de construcción

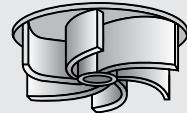
Características de construção



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 2850 rpm. Voltage: single-phase 1x230V-50 Hz
Three-phase 3x380/415V-50 Hz.
Different voltage and frequency on request. ATEX certification in progress
2. Shaft in stainless steel AISI 420
3. Heavy duty bearing for long life
4. Double mechanical seal in oil chamber + radial lipseal
Water side: silicon carbide/silicon carbide
Motor side: graphite/alumina
5. Cast iron Vortex Impeller with high head
6. Cable H07RNF
7. Thermal protection incorporated in the single phase execution
8. Float switch regulator
9. AET-AEM electrical gear for three-phase and single-phase execution
10. Oil inspection plug
11. Air plug hole for the motor water tightness control

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP 68
Giri: 2850 al min⁻¹
Voltaggio: monofase 1x230V-50 Hz e trifase 3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta.
Certificazione ATEX in corso
2. Albero in acciaio AISI 420
3. Cuscinetti sovrardimensionati lunga vita
4. Doppia tenuta meccanica in camera d'olio + paraolio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: grafite/allumina
5. Girante Vortex in ghisa ad alta prevalenza
6. Cavo H07RNF
7. Protezione termica di serie nella versione monofase
8. Galleggiante
9. AET-AEM quadro elettrico per versione trifase e monofase
10. Ispezione olio
11. Controllo tenuta stagna motore

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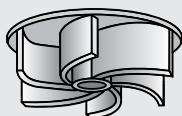


1. Полностью погружной двигатель с герметичным уплотнением. Класс изоляции Н. Класс защиты IP68. Скорость вращения: 2850 об./мин. Напряжение: монофазное 1x230 В 50 Гц и трехфазное 380/415 В 50 Гц. Другие напряжения и частота под заказ. Проходит сертификацию ATEX.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники, рассчитанные с запасом
4. Двойное мех. уплотнение в масляной камере + сальник С гидравлической стороны: карбид кремния/ карбид кремния
Со стороны двигателя: графит/оксид алюминия
5. Рабочее колесо вихревого типа из чугуна с высоким напором
6. Кабель H07RNF
7. Теплозащита серийно в монофазном варианте
8. Плавковый выключатель
9. АЕТ-АЕМ пульт управления для трехфазного и монофазного варианта
10. Окошко для контроля масла
11. Контроль герметичности двигателя

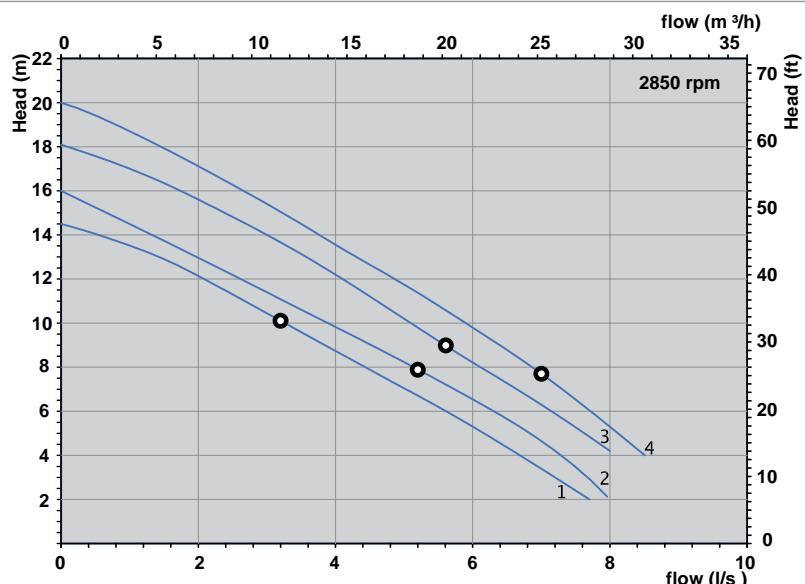
1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 2850 rpm/min⁻¹
Voltaje: monofásico 50 Hz 1x230V- trifásico 3 x 380/415V 50 Hz
Otros voltajes y frecuencias a demanda.
Certificación ATEX pendiente
2. Eje Acero inoxidable AISI 420
3. Cojinetes sobredimensionados lubrificados indefinidamente
4. Doble cierre mecánico en cámara de aceite + retén de nitrilo
Carburo de silicio/Carburo de silicio en el lado agua.
Grafito/Acero templado en el lado motor.
5. Impulsor vortex de hierro fundido a preponderancia alta
6. Cable H07RNF
7. Protector térmico en el bobinado, de rearne automático o manual para motores monofásicos.
8. Interruptor de boya para funcionamiento automático
9. AET-AEM Cuadros eléctricos para motores trifásicos o monofásicos
10. Inspección aceite
11. Control de motor estanco

1. Moteur entièrement submersé étanche à l'eau
Classe d'isolation H. indice de protection IP 68
Vitesse de rotation: 2850 tr/mn
Bobinage mono: 1x230V Fréquence: 50 Hz - tri:
3x380/415V Fréquence: 50 Hz
Autres tensions et fréquences sur demande.
Certification ATEX en cours
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile + joint de la garniture
Garniture inférieure: Carbure de silicium/Carbure de silicium
Garniture supérieure: graphite/allumine
5. Roue vortex en fonte à haute prévalence
6. Cable H07RNF
7. Version monophasée: protection thermique de série
8. Flotteur
9. Coffret électrique de commande AET-AEM pour mono et tri version
10. Inspection de l'huile
11. Contrôle moteur étanche à l'eau

1. Motor totalmente submerso estanque
Isolamentos em classe H. Grau de proteção IP 68
rpm: 2850
Tensão: monofásica e trifásica 1x230V Hz-50 Hz
3x380/415V-50
Outras tensões e frequências a pedido.
ATEX pendente
2. Eixo em aço AISI 420
3. Chumaceiras sobredimensionados isentes de manutenção
4. Duplo contenção na câmara óleo pi anel de contenção NBR
contenção inferior: carboneto de silício
contenção superior: grafito/allumina
5. Giratória a vórtice em ferro fundido a preponderância elevada
6. Cabo H07RNF
7. Proteção térmica da série versão monofásica
8. Regulador de nível
9. AET-AEM painel elétrico para versão monofásica e trifásica
10. Inspeção de óleo
11. Controle motor estanque



GB

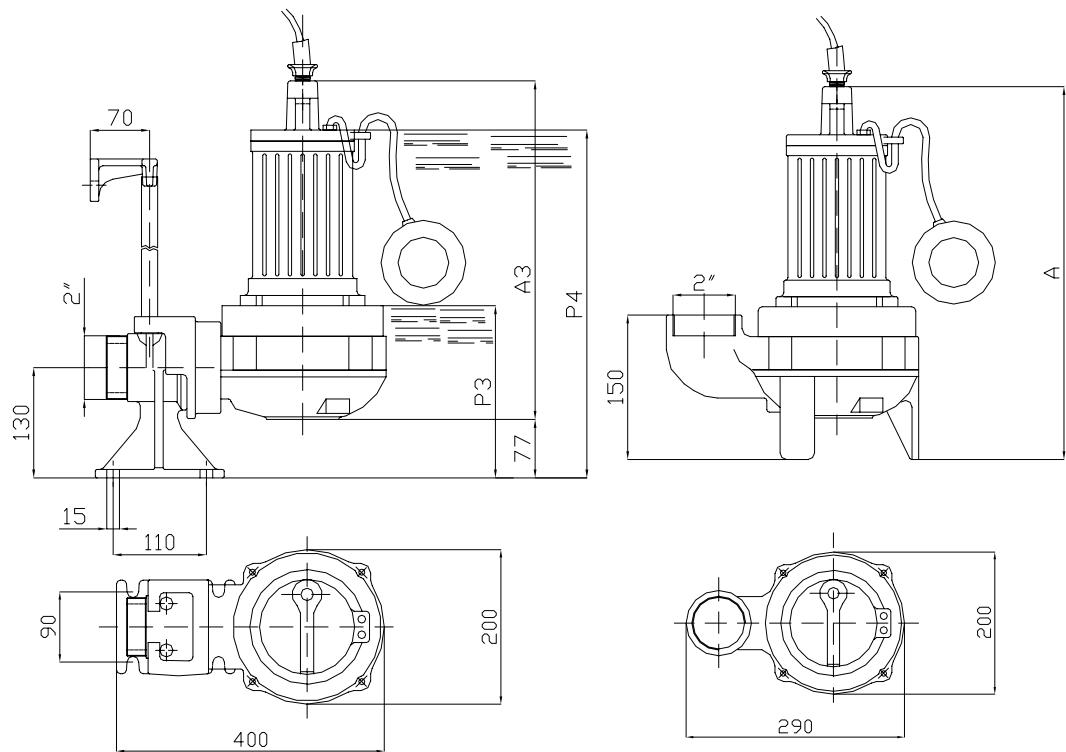
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS									PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO											
Nr	Modello - Type	P1 kW	P2 kW	Volt	mF	Amp	Giri rpm	DN	Ø mm	l/sec	0	1	2	3	4	5	6	7	8	9
									H m	m³/h	14.5	13.5	12.1	10.5	8.7	7	5.3	3.2		
1	GB - CV08 - DM-A	1	0.8	230	22	4.6	2850	2"	40		14.5	13.5	12.1	10.5	8.7	7	5.3	3.2		
1	GB - CV08 - DT	1	0.8	400			2850	2"	40		14.5	13.5	12.1	10.5	8.7	7	5.3	3.2		
2	GB - CV12 - DM-A	1.6	1.2	230	30	7.1	2850	2"	40		16	14.5	13	11.4	9.8	8.3	6.6	4.6		
3	GB - CV12 - DT	1.6	1.2	400			2850	2"	40		18.1	17	15.6	14	12.2	10.2	8.2	6.3		
4	GB - CV26 - DT - R	3.3	2.6	400			2850	2"	40		20	18.8	17.2	15.5	13.5	11.8	9.9	7.7	5.3	

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

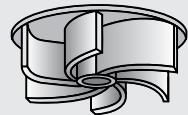
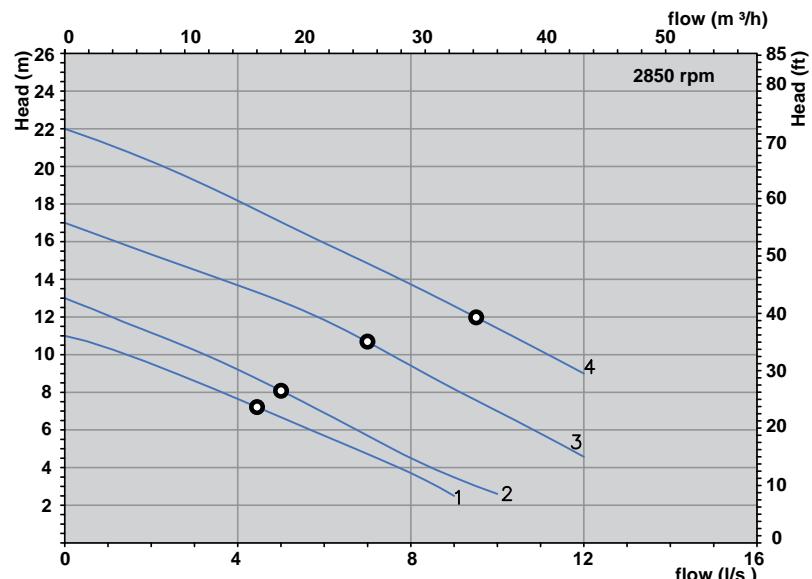
Nr	Modello - Type	A max	A3 max	E	F3	H	DN2	DN4	P3	P4	V	KG
1	GB - CV08 - DM-A	410	368	77	150	290	2"	2"	250	445	50	22
1	GB - CV08 - DT	410	368	77	150	290	2"	2"	250	445	50	22
2	GB - CV12 - DM-A	430	388	77	150	290	2"	2"	270	465	50	23.5
3	GB - CV12 - DT	430	388	77	150	290	2"	2"	270	465	50	23.5
4	GB - CV26 - DT - R	460	418	77	150	290	2"	2"	245	495	50	37

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

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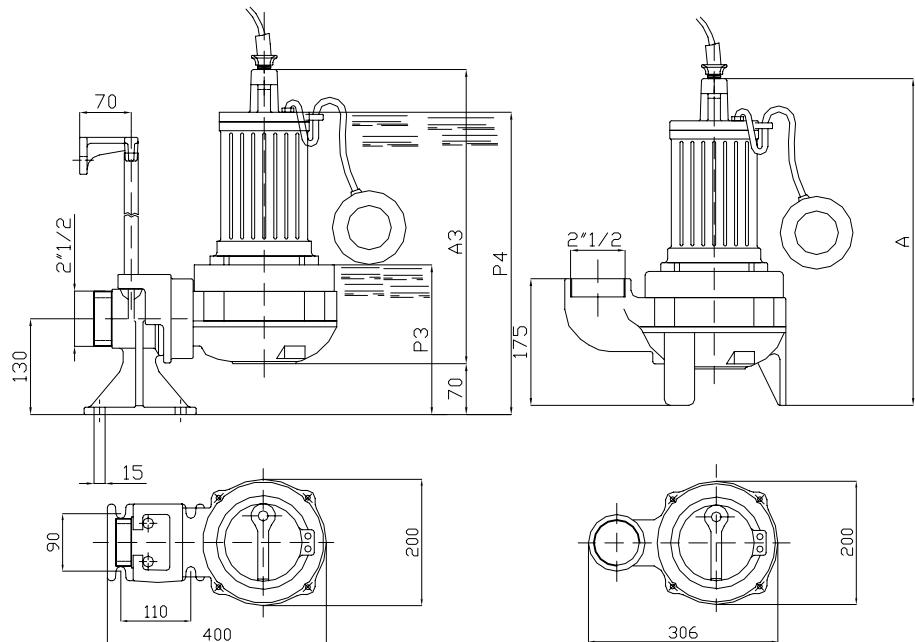
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

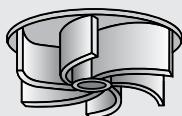
GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS									PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO														
Nr	Modello - Type	P1	P2	Volt	μF	Amp	Giri	DN	Ø	I/sec	0	1	2	3	4	5	6	7	8	9	10	11	12
		kW	kW				rpm		mm	m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2
1	GB - CV08 - EM-AR	1	0.8	230	22	4.6	2850	2 ¹ / ₂	65	H	11	10.4	9.5	8.5	7.6	6.6	5.6	4.6	3.7	2.5			
1	GB - CV08 - ET - R	1	0.8	400		2.1	2850	2 ¹ / ₂	65		11	10.4	9.5	8.5	7.6	6.6	5.6	4.6	3.7	2.5			
2	GB - CV12 - EM-A	1.6	1.2	230	30	7.1	2850	2 ¹ / ₂	65		13	12.1	11.2	10.3	9.3	8	6.9	5.6	4.5	3.5	2.5		
2	GB - CV12 - ET	1.6	1.2	400		3.1	2850	2 ¹ / ₂	65		13	12.1	11.2	10.3	9.3	8	6.9	5.6	4.5	3.5	2.5		
3	GB - CV18 - ET	2.3	1.85	400		4	2850	2 ¹ / ₂	65		17	16.2	15.4	14.5	13.6	12.9	11.8	10.6	9.4	8.1	6.9	5.7	4.6
4	GB - CV26 - ET	3.3	2.6	400		5.9	2850	2 ¹ / ₂	65		22	21.1	20.4	19.2	18.2	17	15.9	14.9	13.7	12.5	11.4	10.2	9

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO												
Nr	Modello - Type	A max	A3 max	E	F3	H	DN2	DN4	P3	P4	V	KG
1	GB - CV08 - EM-AR	435	385	70	175	306	2 ¹ / ₂	2 ¹ / ₂	282	478	50*	23
1	GB - CV08 - ET - R	435	385	70	175	306	2 ¹ / ₂	2 ¹ / ₂	282	478	50*	23
2	GB - CV12 - EM-A	455	405	70	175	306	2 ¹ / ₂	2 ¹ / ₂	302	498	50*	24,5
2	GB - CV12 - ET	455	405	70	175	306	2 ¹ / ₂	2 ¹ / ₂	302	498	50*	24,5
3	GB - CV18 - ET	485	455	70	175	306	2 ¹ / ₂	2 ¹ / ₂	303	428	50*	31,5
4	GB - CV26 - ET	505	455	70	175	306	2 ¹ / ₂	2 ¹ / ₂	397	548	50*	38

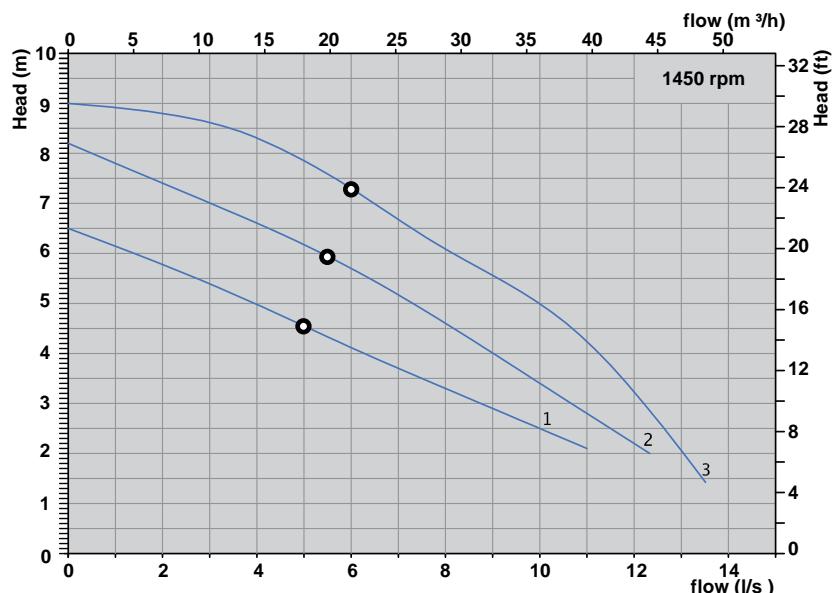
* V50 2" 1/2 gas

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS





GA - 4

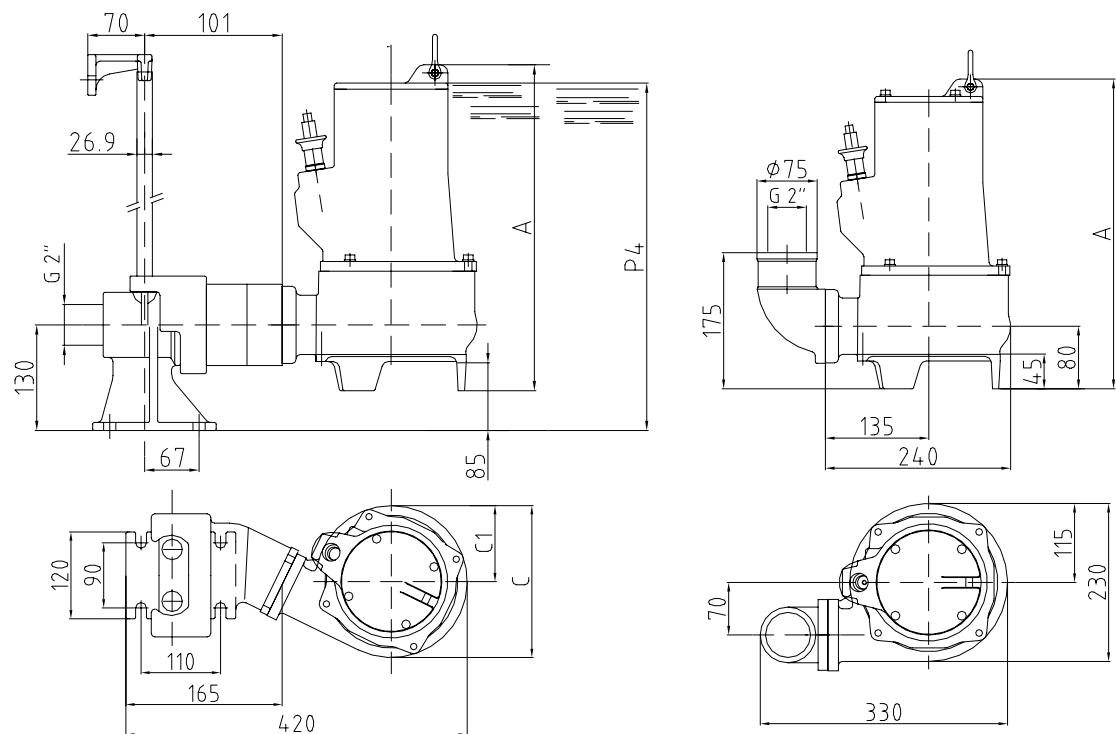
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO									
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	\varnothing mm	l/sec	0	2	4	6	8	10	12	14
		m³/h	0	7.2	14.4	21.6			m³/h	6.5	5.8	5	4.1	3.3	2.5		
1	GA - CV07 - DMs - 4	1.35	0.75	230	6	1450	50	45	0	6.5	5.8	5	4.1	3.3	2.5		
1	GA - CV07 - DT - 4	0.95	0.75	400	14	1450	50	45	0	6.5	5.8	5	4.1	3.3	2.5		
2	GA - CV11 - DT - 4R	1.4	1.1	400	3	1450	50	45	0	8.2	7.4	6.6	5.7	4.6	3.4	2.2	
3	GA - CV15 - DT - 4	1.85	1.5	400	4	1450	50	45	0	9	8.8	8.3	7.3	6.1	5	3.2	

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ
DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

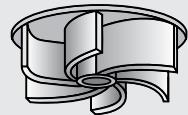
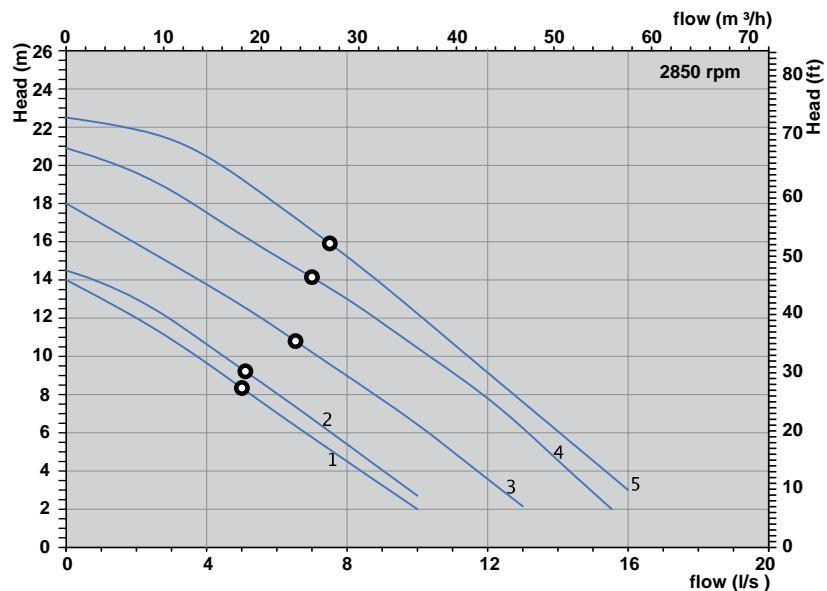
Nr	Modello - Type	A max	P3	P4	V	KG
1	GA - CV07 - DMs - 4	400	210	435	50	31
1	GA - CV07 - DT - 4	400	210	435	50	30
2	GA - CV11 - DT - 4R	400	210	435	50	32
3	GA - CV15 - DT - 4	440	225	475	50	35

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



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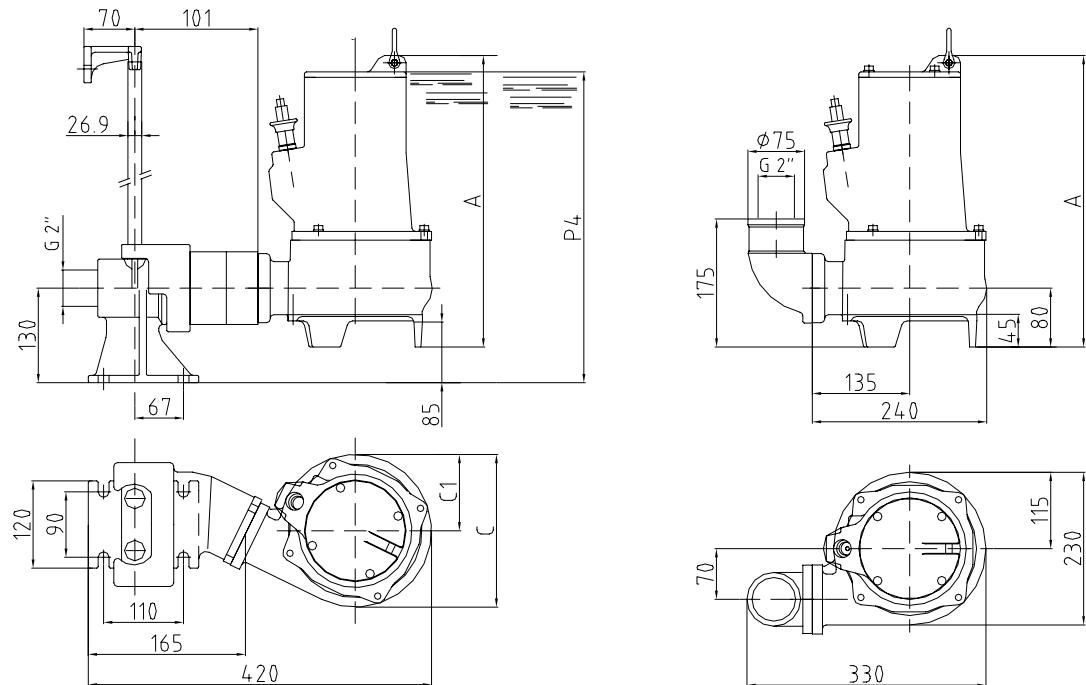
GB

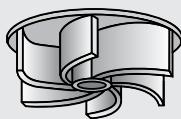
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO											
Nr	Modello - Type	P1	P2	Volt	μF	Amp	Giri	DN	Ø mm	I/sec	0	2	4	6	8	10	12	14	16
		kW	kW				rpm			m³/h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
1	GB - CV11-DMs	1.55	1.1	230	40	7.5	2850	50	45		14	12	9.7	7	4.5				
2	GB - CV11 - DT	1.45	1.1	400		3	2850	50	45		14.5	13	10.6	8.1	5.5				
3	GB - CV18 - DT	2.1	1.85	400		4.4	2850	50	45		18	16	13.8	11.5	9	6.5	3.5		
4	GB - CV26 - DT	3.2	2.6	400		5.9	2850	50	45		20.9	19.6	17.5	15.2	13	10.5	7.8	4.6	
5	GB - CV30 - DT	4	3	400		7.5	2850	50	45		22	21.8	20.5	18	15.3	12.3	9	6	3

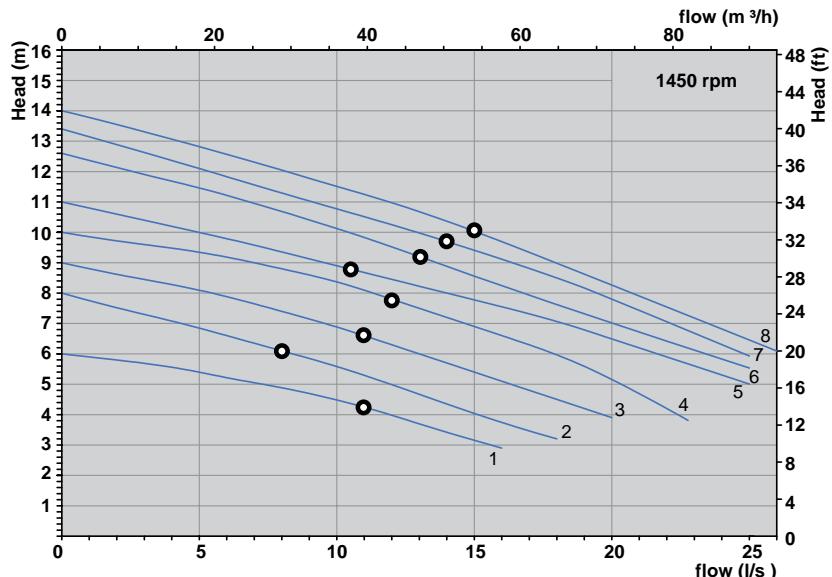
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO					
Nr	Modello - Type	A max	P3	P4	V
1	GB - CV11-DMs	400	210	435	50
2	GB - CV11 - DT	440	250	475	50
3	GB - CV18 - DT	400	210	435	50
4	GB - CV26 - DT	440	225	475	50
5	GB - CV30 - DT	465	230	500	50
KG					

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS





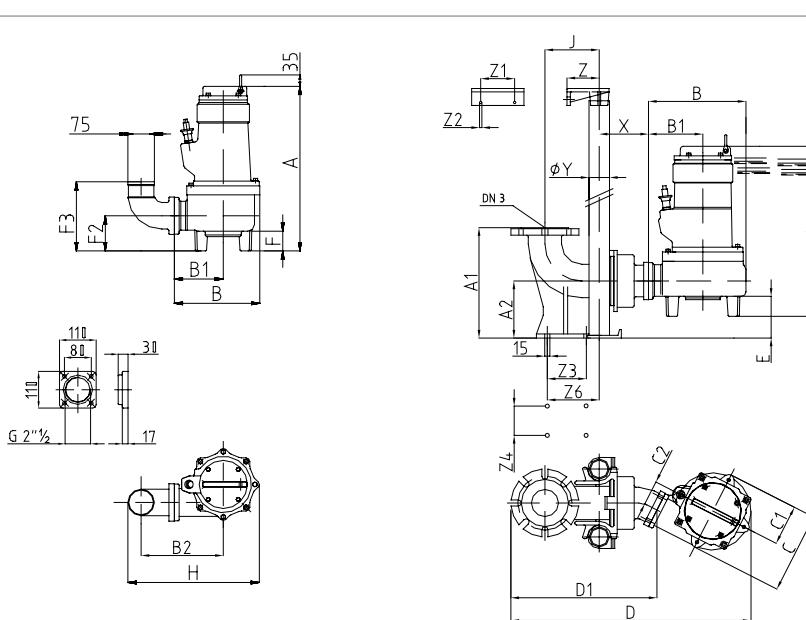
GA - 4

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI ОСНОВНЫЕ ХАРАКТЕРИСТИКИ - CARACTÉRISTIQUES GÉNÉRALES CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO																							
Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	Ø	I/sec	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28							
		kW	kW	Volt	Amp	rpm	mm	mm	m ³ /h	0	7	14	21.6	28.8	36	43.2	50.4	57.6	64.8	72	79.2	86.4	93.6	100.8							
1	GA - CV11 - ET - 4	1.5	1.1	400	3.2	1450	65	65		6	5.8	5.6	5.2	4.9	4.5	4	3.4	2.9													
2	GA - CV15 - ET - 4	1.9	1.5	400	4	1450	65	65		8	7.5	7.1	6.6	6.1	5.6	5	4.2	3.7	3.2												
3	GA - CV22 - ET - 4	2.9	2.2	400	4.8	1450	65	65		9	8.6	8.3	7.9	7.4	6.9	6.3	5.7	5.1	4.7	3.9											
4	GA - CV35 - ET - 4R	4	3.5	400	6.8	1450	65	65		10	9.7	9.5	9.2	8.8	8.4	7.8	7.2	6.6	6	5.2	4.2										
5	GA - CV35 - ET - 4	4	3.5	400	8	1450	65	65		11	10.6	10.2	9.8	9.4	8.9	8.4	8	7.6	7	6.5	5.8	5.3									
6	GA - CV42 - ET - 4R	5	4.2	400	9.2	1450	65	65		12.6	12.1	11.7	11.3	10.6	10.1	9.5	8.9	8.3	7.7	7	6.4	5.8									
7	GA - CV42 - ET - 4	5	4.2	400	9.2	1450	65	65		13.4	12.9	12.4	11.8	11.3	10.8	10.2	9.8	9.4	8.6	7.8	7	6.4									
8	GA - CV55 - ED - 4	6.8	5.5	400	12	1450	65	65		14	13.6	13	12.6	12.1	11.5	11	10.4	9.6	9	8.3	7.6	6.8	6.1								

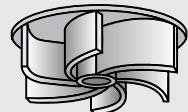
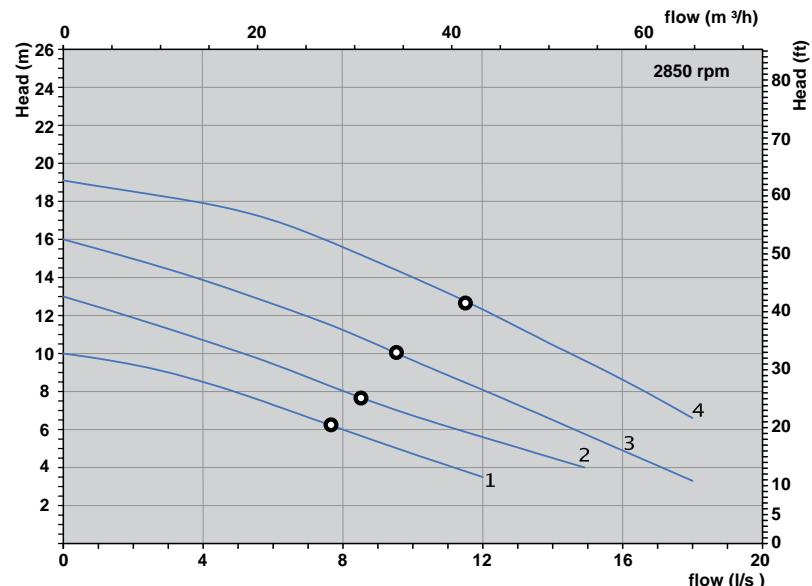
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO																															
Nr	Modello - Type	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	E	F	F2	F3	H	J	X	Y	Z	Z1	Z2	Z3	Z4	Z6	DN3	P3	P4	V	KG
1	GA - CV11 - ET - 4	475	300	160	260	154	255	220	110	55	635	356	56	59	105	205	400	134	130	42.4	84	100	12	50	96	132	65	330	515	65	39
2	GA - CV15 - ET - 4	475	300	160	250	154	255	220	110	55	635	356	56	59	105	205	400	134	130	42.4	84	100	12	50	96	132	65	330	515	65	39
3	GA - CV22 - ET - 4	540	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	300	570	80	52
4	GA - CV35 - ET - 4R	540	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	300	570	80	53
5	GA - CV35 - ET - 4	540	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	300	570	80	53
6	GA - CV42 - ET - 4R	540	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	300	570	80	55
7	GA - CV42 - ET - 4	540	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	300	570	80	55
8	GA - CV55 - ED - 4	590	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	350	620	80	58

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



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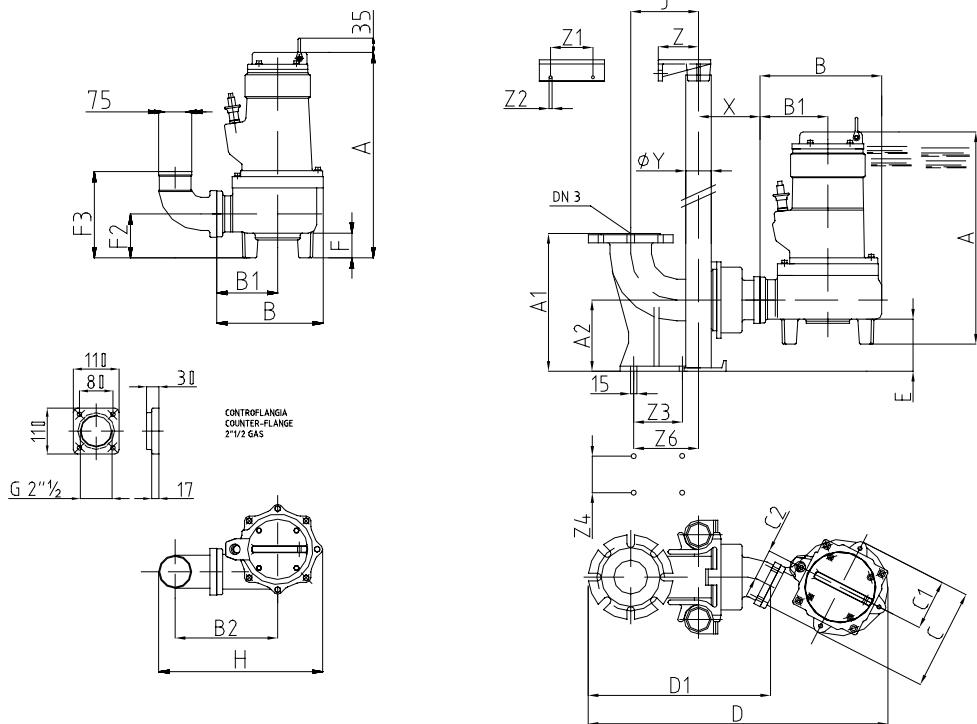
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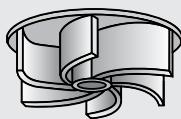
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS										PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO																
Nr	Modello - Type	P1	P2	Volt	μ F	Amp	Giri	DN	\emptyset	I/sec	0	2	4	6	8	10	12	14	16	18	20					
		kW	kW				rpm		mm	m ³ /h	0	7	14	21.6	28.8	36	43.2	50.4	57.6	64.8	72					
1	GB - CV11 - EMs - R	1.5	1.1	230	40	8	2850	65	50		10	9.4	8.5	7.3	6	4.7	3.5									
1	GB - CV11 - ET - R	1.4	1.1	400		3	2850	65	50		10	9.4	8.5	7.3	6	4.7	3.5									
2	GB - CV18 - ET - RR	2.3	1.85	400		4	2850	65	50		13	11.9	10.7	9.5	8	6.7	5.6	4.5								
3	GB - CV26 - ET - RR	3.2	2.6	400		5.8	2850	65	50		16	15	13.9	12.6	11.3	9.6	8.1	6.5	4.9							
4	GB - CV40 - ET - R	4.9	4	400		9	2850	65	50		19.1	18.5	17.9	17	15.6	14	12.3	10.4	8.7	6.6						

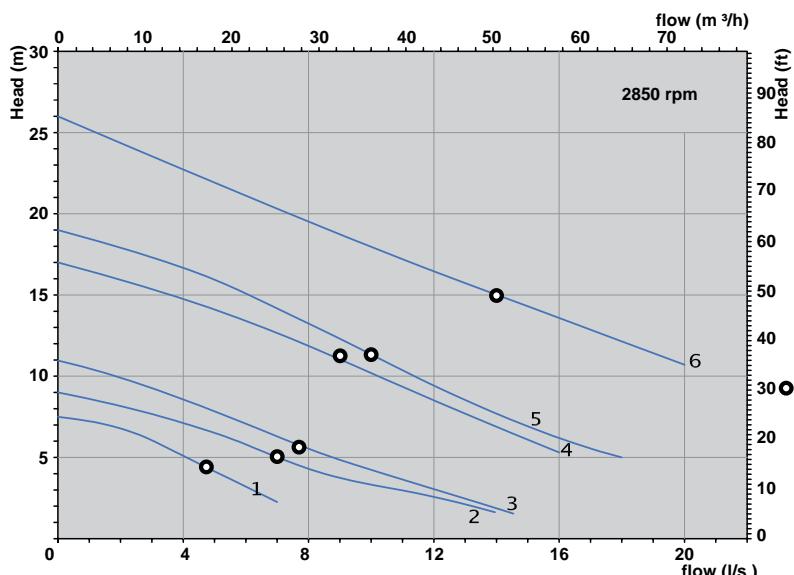
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO																											
Nr	Modello - Type	A _{max}	A ₁	A ₂	B	B ₁	B ₂	C	C ₁	C ₂	D	D ₁	E	H	J	X	Y	Z	Z ₁	Z ₃	Z ₄	Z ₆	DN3	P3	P4	V	KG
1	GB - CV11 - EMs - R	475	300	160	250	154	255	220	110	55	635	355	56	400	134	130	42.4	84	100	90	100	140	65	320	510	65	31
1	GB - CV11 - ET - R	475	300	160	250	154	255	220	110	55	635	355	56	400	134	130	42.4	84	100	90	100	140	65	320	510	65	31
2	GB - CV18 - ET - RR	475	300	160	250	154	255	220	110	55	635	355	56	400	134	130	42.4	84	100	90	100	140	65	320	510	65	33
3	GB - CV26 - ET - RR	485	300	160	250	145	242	220	110	55	635	355	56	400	134	130	42.4	84	100	90	100	140	65	310	525	65	40
4	GB - CV40 - ET - R	505	325	168	270	148	258	240	120	72	707	430	64	425	160	145	60.3	95	150	120	120	175	80	345	555	80	51

DIMENSION DRAWINGS
DIMENSIONI D'INCOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS





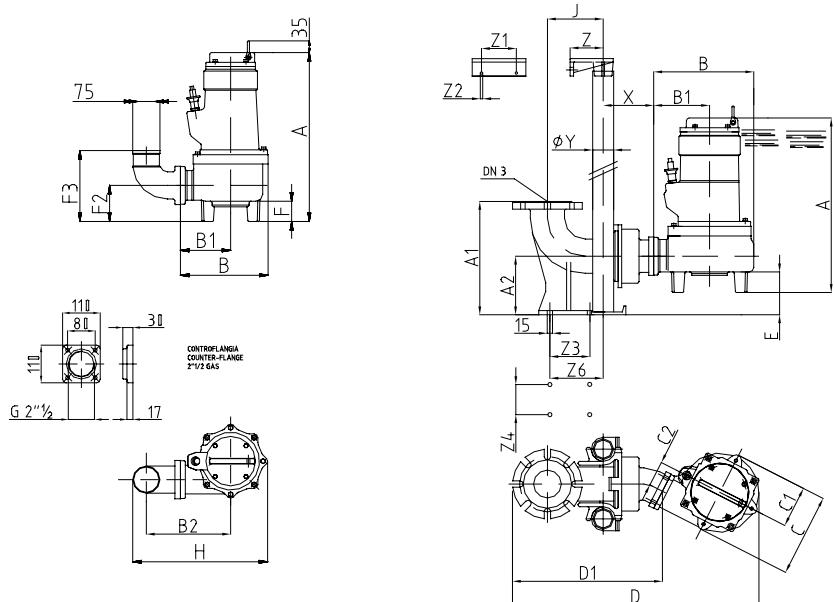
GB

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

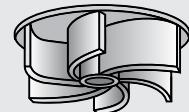
Nr	Modello - Type	P1 kW	P2 kW	Volt	μF	Amp	Giri rpm	DN	Ø mm	PRESTAZIONI - PERFORMANCES - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO												
										l/sec	0	2	4	6	8	10	12	14	16	18	20	22
										m³/h	0	7	14	21.6	28.8	36	43.2	50.4	57.6	64.8	72	79.2
1	GB - CV08 - EM	1.1	0.8	230	22	5.5	2850	65	65	7.5	6.8	5	3.2									
2	GB - CV11 - EMS	1.3	1.1	230	30	7.1	2850			9	8.2	7.1	5.8	4.1	3	2.5						
2	GB - CV11 - ET	1.3	1.1	400		3	2850			9	8.2	7.1	5.8	4.1	3	2.5						
3	GB - CV18 - ET - R	2.2	1.85	400		4	2850			11	9.9	8.5	7	5.5	3.5	3	2					
4	GB - CV26 - ET - R	3.2	2.6	400		5.8	2850			17	16	15	13.8	12	10.5	8.4	7	5.3				
5	GB - CV40 - ET	4.9	4	400		9	2850			19	18	16.9	15.1	12.8	11.4	9.3	7.6	6	5			
6	GB - CV55 - ED - R	6.8	5.5	400		12	2850			26	24.3	22.5	21.2	19	17.6	16.4	15	13.5	12.3	10.7		

Nr	Modello - Type	A max	A1	A2	B	B1	B2	C	C1	C2	D	D1	E	F	F2	F3	H	J	X	Y	Z	Z1	Z2	Z3	Z4	Z6	DN3	P3	P4	V	KG
1	GB - CV08 - EM	470	300	160	250	145	242	220	110	55	635	356	56	59	105	205	400	134	130	42,4	84	100	12	90	96	132	65	330	510	65	24
2	GB - CV11 - EMS	470	300	160	250	145	242	220	110	55	635	356	56	59	105	205	400	134	130	42,4	84	100	12	90	96	132	65	320	510	65	25
2	GB - CV11 - ET	470	300	160	250	145	242	220	110	55	635	356	56	59	105	205	400	134	130	42,4	84	100	12	90	96	132	65	320	510	65	25
3	GB - CV18 - ET - R	470	300	160	250	145	242	220	110	55	635	356	56	59	105	205	400	134	130	42,4	84	100	14	90	100	140	65	320	515	65	33
4	GB - CV26 - ET - R	485	300	160	250	145	242	220	110	55	635	355	56	59	105	205	400	134	130	42,4	84	100	14	90	100	140	65	310	525	65	40
5	GB - CV40 - ET	505	325	168	270	148	258	240	220	72	707	430	64	59	105	205	425	160	145	60,3	95	150	14	120	120	175	80	345	555	80	51
6	GB - CV55 - ED - R	590	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60,3	95	150	14	120	120	175	80	345	620	80	58

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



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G Series

Submersible pumps

Vortex Impeller

G - Series

1.2 - 48 kW

Discharge size

DN 65 ÷ 100

Elettropompe sommergibili

Girante Vortex

Serie - G

1.2 - 48 kW

Mandata

DN 65 ÷ 100

Погружные электронасосы

С вихревым рабочим колесом

Серия - G

1.2 - 48 kW

выходное отверстие

DN 65 ÷ 100

Electropompes submersibles

Roue Vortex

Série - G

1.2 - 48 kW

Diam. refoulement

DN 65 ÷ 100

Bombas sumergibles

Turbina Vortex

Modelo - G

1.2 - 48 kW

Diámetro impulsión

DN 65 ÷ 100

Bombas eléctricas submersíveis

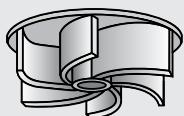
Giratória a Vórtice

Série - G

1.2 - 48 kW

Diâmetro boca

DN 65 ÷ 100



Technical features

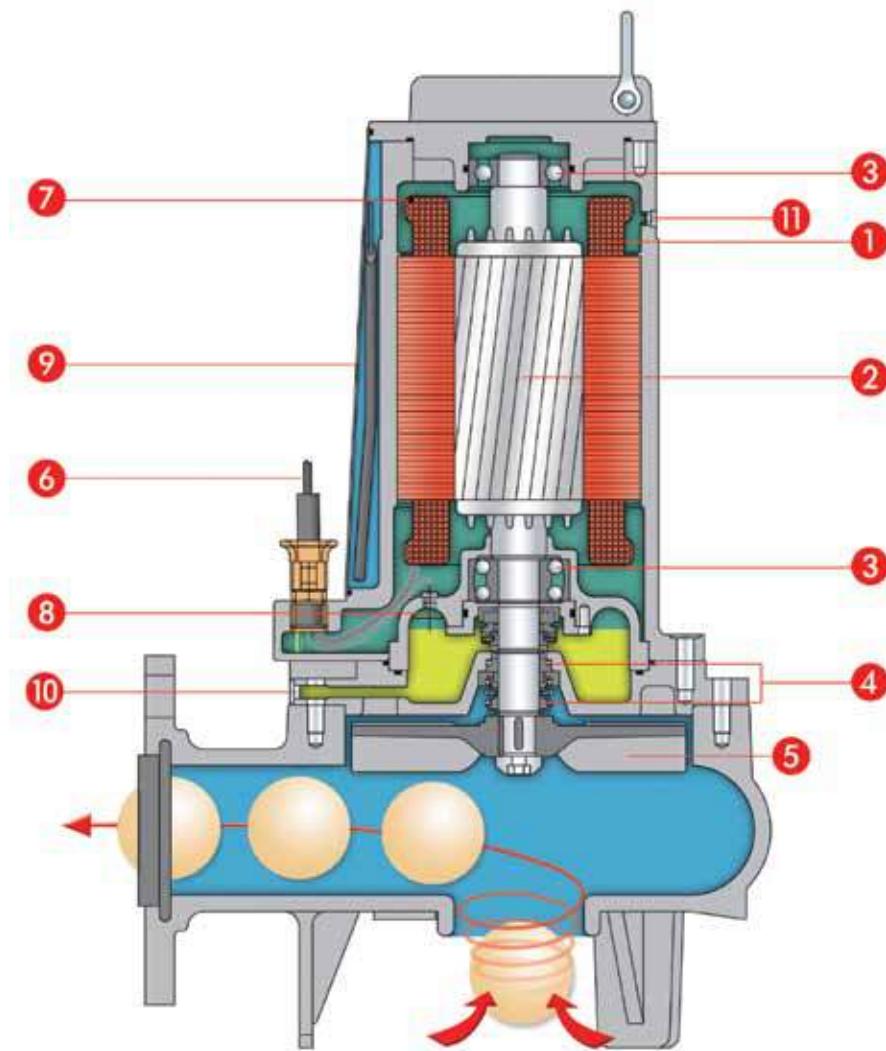
Caratteristiche costruttive

Технические характеристики

Caractéristiques de construction

Características de construcción

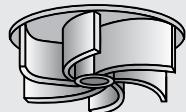
Características de construção



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 1450 - 2850 rpm.
Voltage: three-phase 3x380/415V-50 Hz.
Different voltage and frequency on request.
2. Shaft in stainless steel AISI 420
3. Pre-lubricated long-life bearings
4. Double mechanical seal in oil chamber
Water side: silicon carbide/silicon carbide
Motor side: silicon carbide/silicon carbide
5. Cast iron Vortex Impeller with high efficiency
6. Cable H07RNF
7. Thermal protection embedded in winding (optional)
8. Oil chamber probe (optional)
9. Cooling jacket
10. Oil inspection plug
11. Air Plug Hole for the motor water tightness control

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP68
Giri: 1450-2850 al min⁻¹
Voltaggio: trifase 3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta
2. Albero in acciaio AISI 420
3. Cuscinetti prelubrificati lunga vita
4. Doppia tenuta meccanica in camera d'olio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: carburo di silicio/carburo di silicio
5. Girante Vortex in ghisa ad alto rendimento
6. Cavo H07RNF
7. Protezione termica incorporata nell'avvolgimento (optional)
8. Sonda camera olio
9. Camicia di raffreddamento
10. Ispezione olio
11. Controllo tenuta stagna motore

G Series

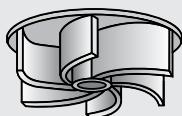
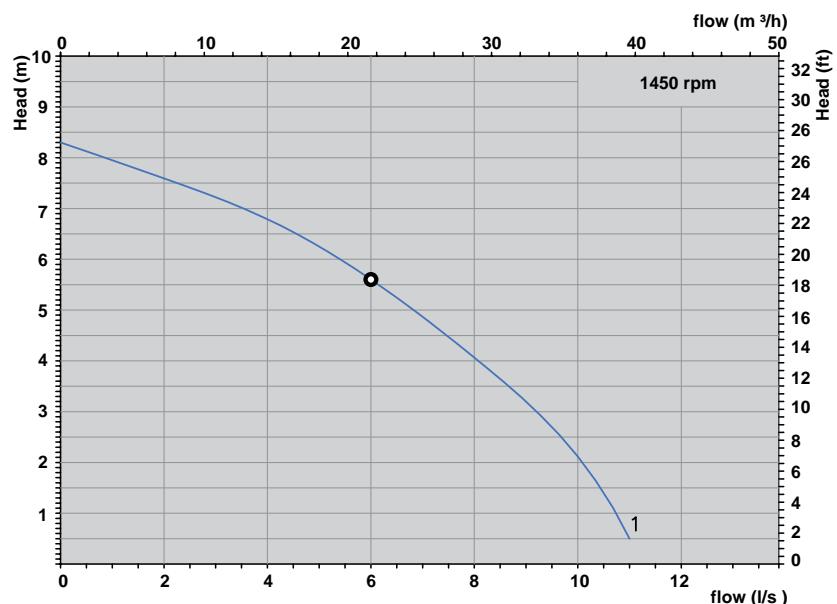


1. Полностью погружной двигатель с герметичным уплотнением. Класс изоляции Н. Класс защиты IP68. Скорость вращения: 1450-2850 об./мин. Напряжение: 3x380/415 В 50 Гц. Другие напряжения и частота под заказ.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники со смазкой
4. Двойное мех. уплотнение в масляной камере. С гидравлической стороны: карбид кремния/ карбид кремния Со стороны двигателя: карбид кремния/карбид кремния
5. Рабочее колесо вихревого типа из чугуна с высоким КПД
6. Кабель H07RNF
7. Встроенная теплозащита в обмотке (опция)
8. Датчик в масляной камере (опция)
9. Охлаждающая рубашка (опция)
10. Окошко для контроля масла
11. Контроль герметичности двигателя

1. Motor completamente sumergido estanco Clase de aislamiento H. Protección IP-68. Velocidad: 1450 - 2850 rpm/min¹ Voltaje: trifásico 3 x 380/415V 50 Hz Otros voltajes y frecuencias a demanda.
2. Eje Acero inoxidable AISI 420
3. Cojinetes sobredimensionados lubrificados indefinidamente
4. Doble cierre mecánico en cámara de aceite Carburo de silicio/Carburo de silicio en el lado agua. Carburo de silicio/Carburo de silicio en el lado motor.
5. Impulsor vortex de hierro fundido alta eficiencia
6. Cable H07RNF
7. Protector térmico en el bobinado (opcional)
8. Detector de infiltraciones en la cámara de aceite
9. Camisa de refrigeración (opcional)
10. Inspección aceite
11. Control de motor estanco

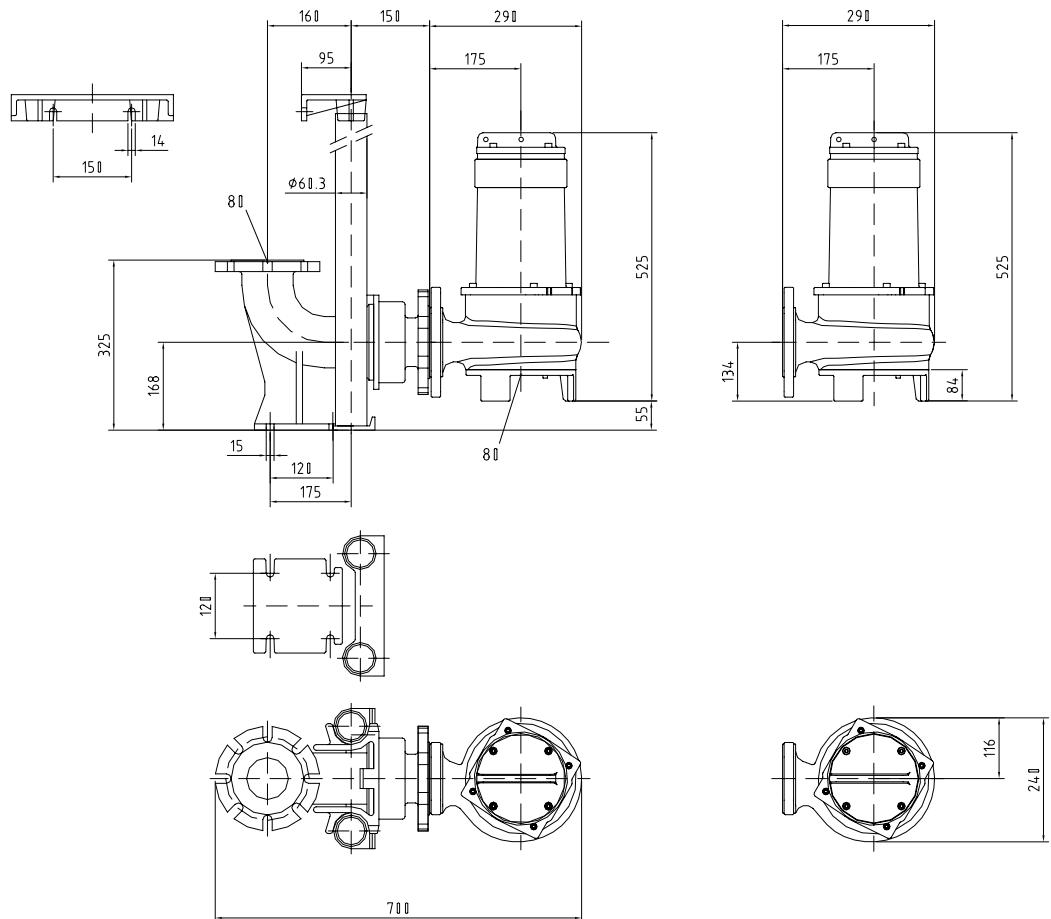
1. Moteur entièrement submersé étanche à l'eau Classe d'isolation H. indice de protection IP 68 Vitesse de rotation: 1450 - 2850 tr/mn Bobinage tri: 3x380/415V Fréquence: 50 Hz Autres tensions et fréquences sur demande .
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile Garniture inférieure: Carbure de silicium/Carbure de silicium Garniture supérieure: Carbure de silicium/Carbure de silicium
5. Roue vortex en fonte à haute performance
6. Cable H07RNF
7. Protection termique intégré dans le bobinage (en option)
8. DéTECTEUR d'infiltration dans la chambre à huile
9. Chemise de refroidissement
10. Inspection de l'huile
11. Contrôle moteur étanche à l'eau

1. Motor totalmente submerso estanco Isolamentos em classe H. Grau de proteção IP 68 rpm: 1450 - 2850 Tensão: trifásica 3x380/415V-50 Outras tensões e frequências a pedido.
2. Eixo em aço AISI 420
3. Chumaceiras sobredimensionados isentas de manutenção
4. Duplo fechamento na câmara óleo Contenção inferior: carboneto de silício Contenção superior: carboneto de silício
5. Giratória a vórtice em ferro fundido alta eficiência
6. Cabo H07RNF
7. Proteção térmica nas bobinas (opcional)
8. Detector da infiltração na câmara óleo (opcional)
9. Camisa de resfriamento
10. Inspeção de óleo
11. Controle motor estanco

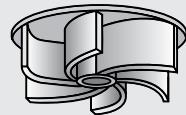
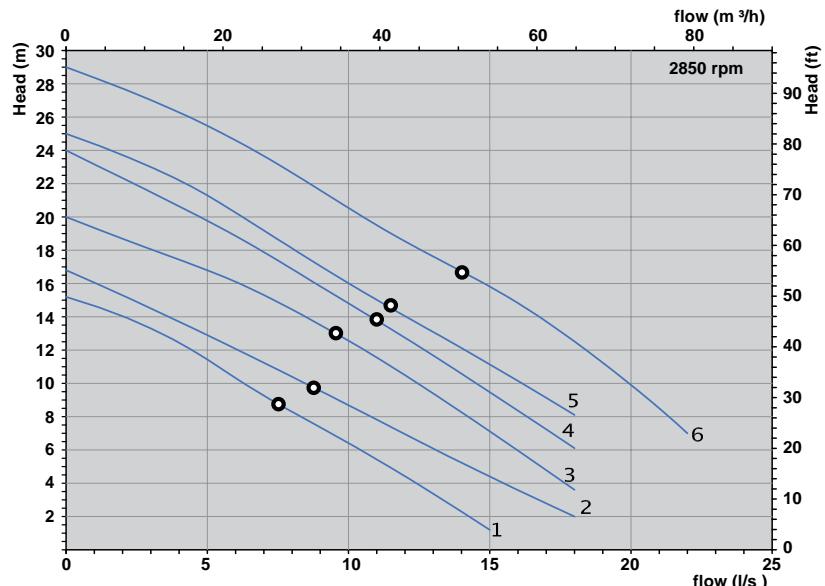
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
COURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICACARATTERISTICHE GENERALI - GENERAL FEATURES - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec	0	2	4	6	8	10	11
1	GB - CV10 - FT - 4	1.25	1	400	2.7	1450	80	50	m³/h	8.3	7.2	14.4	21.6	28.8	36	39.6

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
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DIMENSÕES GLOBAIS



GB

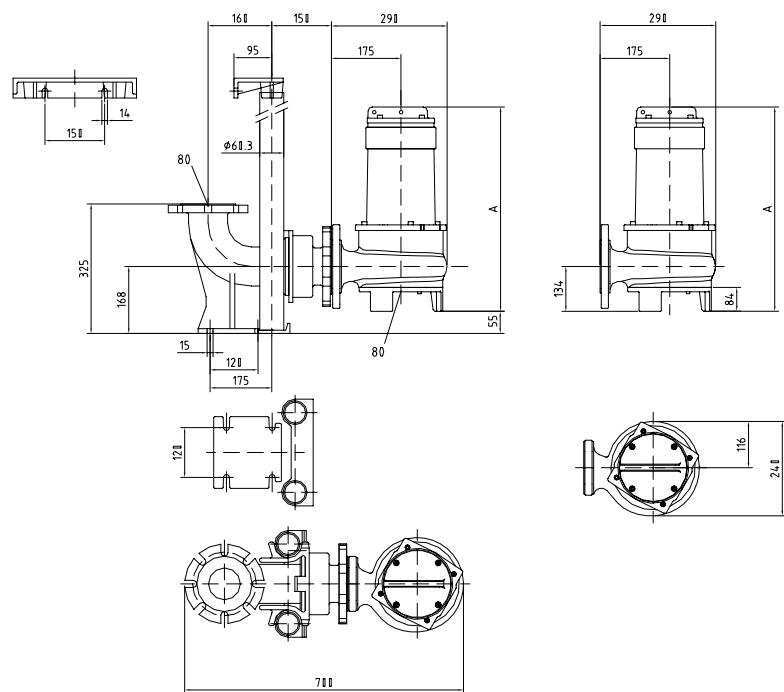
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
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CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	\emptyset mm	I/sec	0	3	6	9	12	15	18	21	22
		kW	kW	Volt	Amp	Giri rpm			m ³ /h	0	10.8	21.6	32.4	43.2	54	64.8	75.6	79.2
1	GB - CV11 - FT	1.3	1.1	400	2.5	2850	80	50		15.2	13.3	10.3	7.4	4.5	1.2			
2	GB - CV18 - FT - R	2.3	1.85	400	4	2850	80	50	H	16.8	14.5	12	9.5	7	4.5	2		
3	GB - CV26 - FT - R	3.3	2.6	400	5.8	2850	80	50	m	20	18	16.1	13.5	10.5	6.5	3.5		
4	GB - CV30 - FT - R	3.7	3	400	6.1	2850	80	50		24	21.5	19	15.8	12.8	9.5	6.1		
5	GB - CV40 - FT - R	4.9	4	400	9	2850	80	50		25	23	20.3	17	14	11.2	8.1		
6	GB - CV55 - FD - RR	6.8	5.5	400	12	2850	80	50		29	27	24.6	21.6	18.5	15.8	12.5	8.5	7

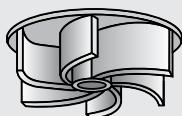
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ
DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A	V	KG
		max		
1	GB - CV11 - FT	507	80N	41
2	GB - CV18 - FT - R	507	80N	42
3	GB - CV26 - FT - R	507	80N	44
4	GB - CV30 - FT - R	513	80N	45
5	GB - CV40 - FT - R	513	80N	49
6	GB - CV55 - FD - RR	563	80N	57

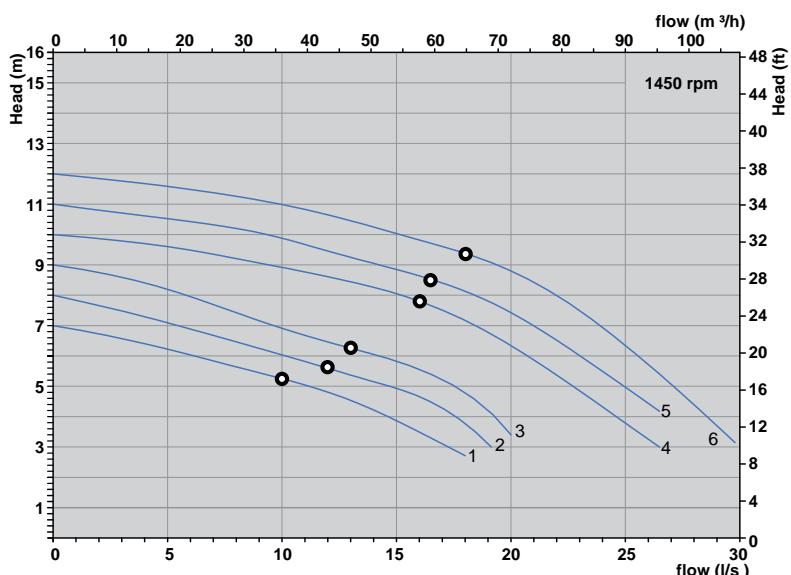
DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



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GA - 4

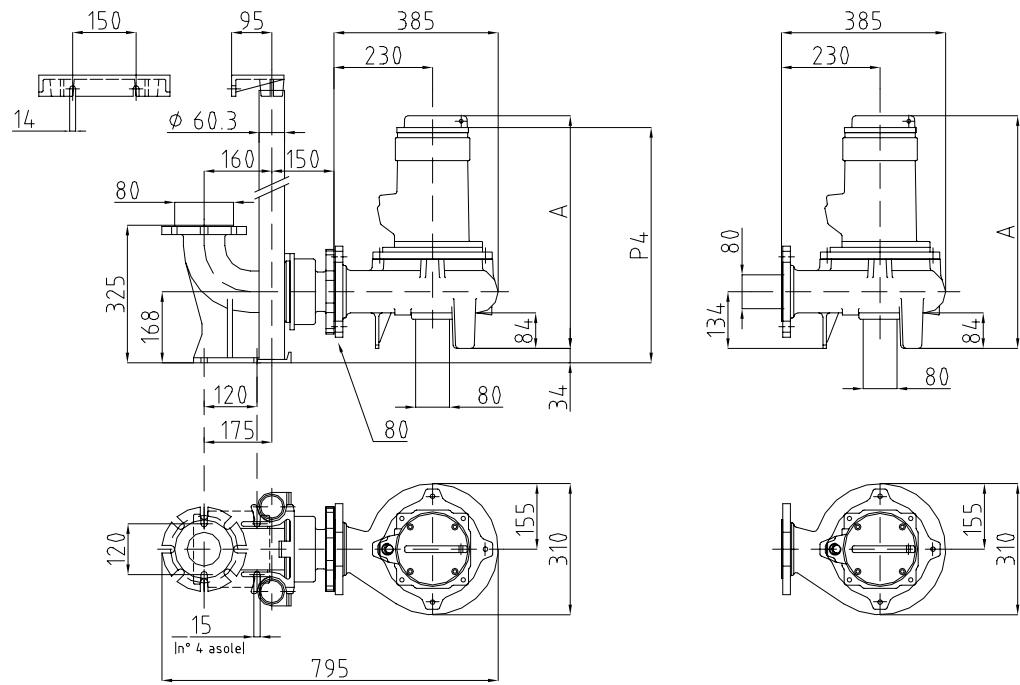
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO									
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec m³/h	0	4	8	12	16	20	24	28
	1 GA - CV13 - FT - 4	1.5	1.3	400	4.2	1450	80	68	H m	7	6.4	5.6	4.8	3.5			
2	GA - CV17 - FT - 4	1.9	1.7	400	4.5	1450	80	68		8	7.3	6.4	5.6	4.6			
3	GA - CV22 - FT - 4	2.9	2.2	400	5	1450	80	68		9	8.4	7.4	6.4	5.5	3.4		
4	GA - CV30 - FT - 4	3.8	3	400	7	1450	80	68		10	9.7	9.2	8.6	7.8	6.3	4.4	
5	GA - CV35 - FT - 4	4	3.5	400	8	1450	80	68		11	10.6	10.2	9.4	8.6	7.4	5.5	
6	GA - CV42 - FT - 4	5	4.2	400	9.2	1450	80	68		12	11.7	11.3	10.7	9.8	8.8	6.9	
GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO									
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec m³/h	0	4	8	12	16	20	24	28
1	GA - CV13 - FT - 4	1.5	1.3	400	4.2	1450	80	68	H m	7	6.4	5.6	4.8	3.5			
2	GA - CV17 - FT - 4	1.9	1.7	400	4.5	1450	80	68		8	7.3	6.4	5.6	4.6			
3	GA - CV22 - FT - 4	2.9	2.2	400	5	1450	80	68		9	8.4	7.4	6.4	5.5	3.4		
4	GA - CV30 - FT - 4	3.8	3	400	7	1450	80	68		10	9.7	9.2	8.6	7.8	6.3	4.4	
5	GA - CV35 - FT - 4	4	3.5	400	8	1450	80	68		11	10.6	10.2	9.4	8.6	7.4	5.5	
6	GA - CV42 - FT - 4	5	4.2	400	9.2	1450	80	68		12	11.7	11.3	10.7	9.8	8.8	6.9	

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ
DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

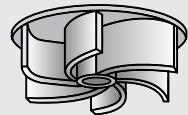
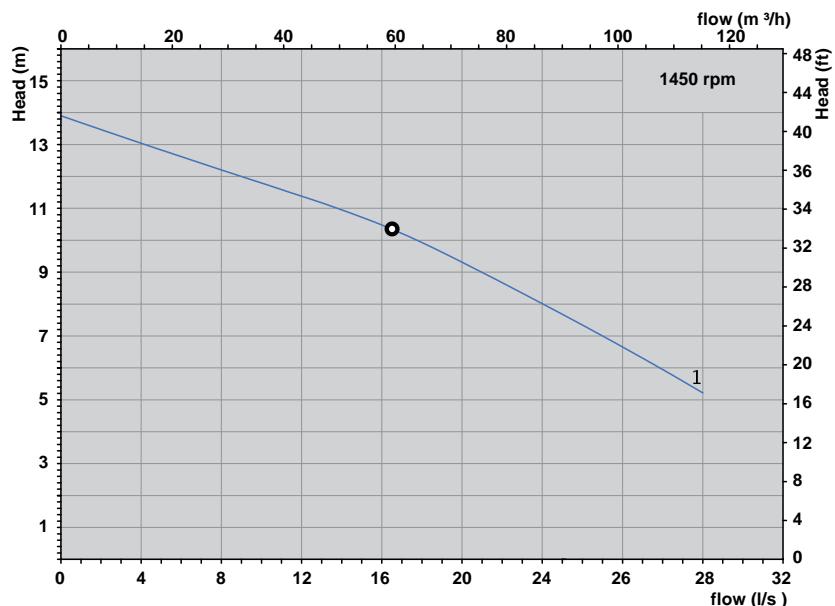
Nr	Modello - Type	A max	P4	V	KG
1	GA - CV13 - FT - 4	540	560	80N	62
2	GA - CV17 - FT - 4	540	560	80N	62
3	GA - CV22 - FT - 4	540	560	80N	62
4	GA - CV30 - FT - 4	560	580	80N	68
5	GA - CV35 - FT - 4	560	580	80N	68
6	GA - CV42 - FT - 4	610	580	80N	68

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



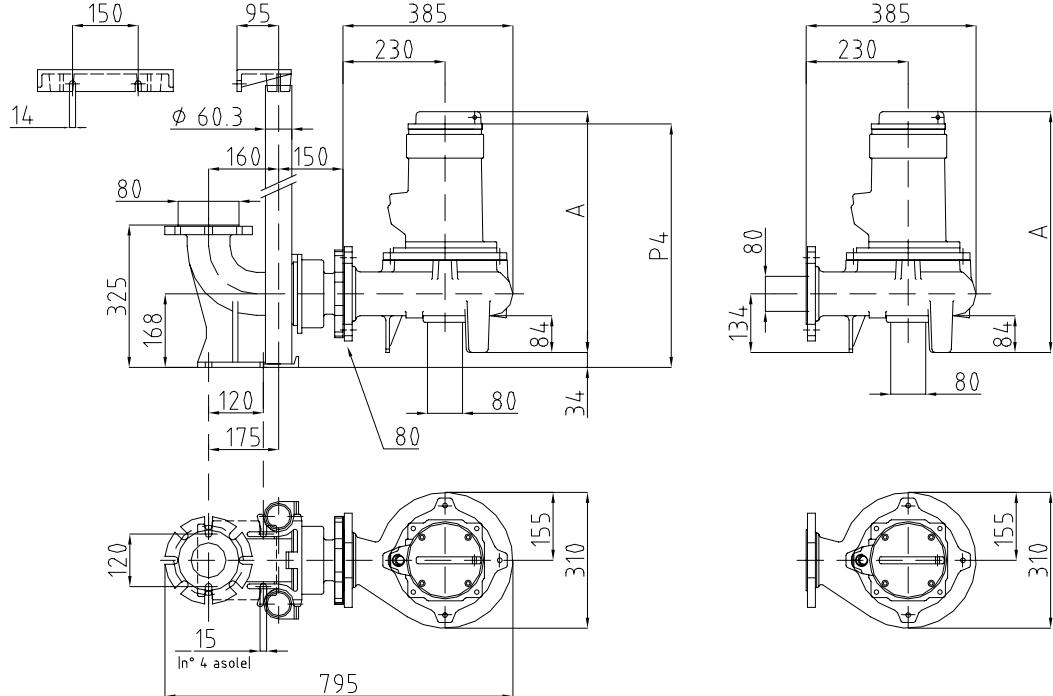
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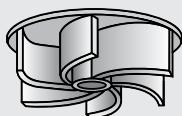
GA - 4

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

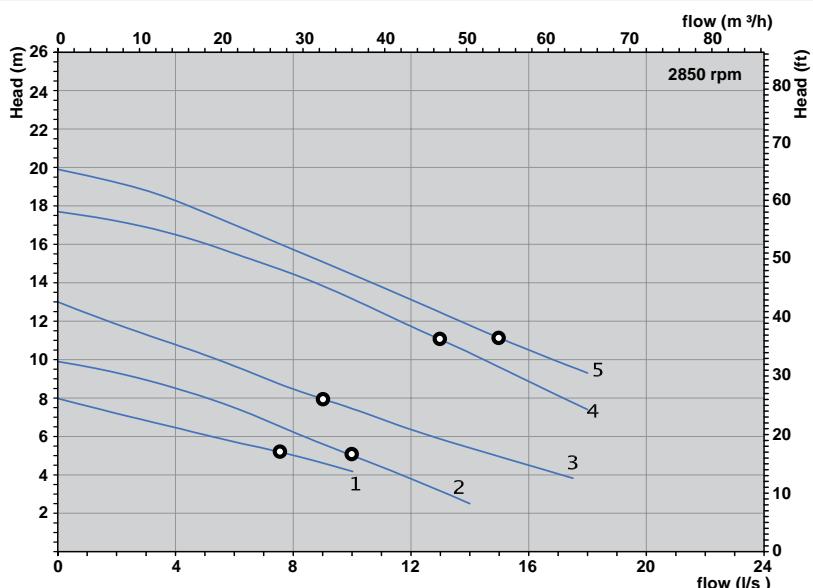
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	V	KG	l/sec	0	4	8	12	16	20	24	28
		m³/h	0	14	29	43.2	57.6	72	86.4	100.8									
1	GA - CV55 - FD - 4R	6.8	5.5	400	12	1450	80	72	80N	70	H m	13.9	13	12.2	11.4	10.5	9.3	8	5.2

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
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GB

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
COURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
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GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS									PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO											
Nr	Modello - Type	P1 kW	P2 kW	Volt	μF	Amp	Giri rpm	DN	Ø mm	l/sec m³/h	0	2	4	6	8	10	12	14	16	18
1	GB - CV12 - FMs	1.5	1.2	230	30	7	2850	80	80		8	7.2	6.5	5.7	5.1	4.2				
1	GB - CV12 - FT	1.5	1.2	400		3.1	2850	80	80		8	7.2	6.5	5.7	5.1	4.2				
2	GB - CV18 - FT	2.3	1.85	400		4.4	2850	80	80	H m	9.9	9.3	8.5	7.5	6.2	5	3.8	2.5		
3	GB - CV26 - FT	3.2	2.6	400		5.5	2850	80	80		13	11.8	10.8	9.7	8.4	7.5	6.3	5.4	4.5	
4	GB - CV40 - FT	5	4	400		8.9	2850	80	80		17.7	17.2	16.5	15.4	14.5	13.2	11.7	10.4	8.7	7.4
5	GB - CV55 - FD	7	5.5	400		12	2850	80	80		19	18.2	17.3	16.2	15.2	14.5	13.2	11.7	10.5	9.3

DIMENSIONI DI INSTALLAZIONE - INSTALLATION SIZES - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A max	B	B1	C	C1	D	P4	V	KG
1	GB - CV12 - FMs	490	280	180	212	106	690	546	80N	25
1	GB - CV12 - FT	490	280	180	212	106	690	546	80N	25
2	GB - CV18 - FT	540	280	180	212	108	690	596	80N	62
3	GB - CV26 - FT	540	280	180	212	108	690	596	80N	62
4	GB - CV40 - FT	560	385	230	310	155	795	616	80N	68
5	GB - CV55 - FD	610	385	230	310	155	795	666	80N	70

DIMENSION DRAWINGS

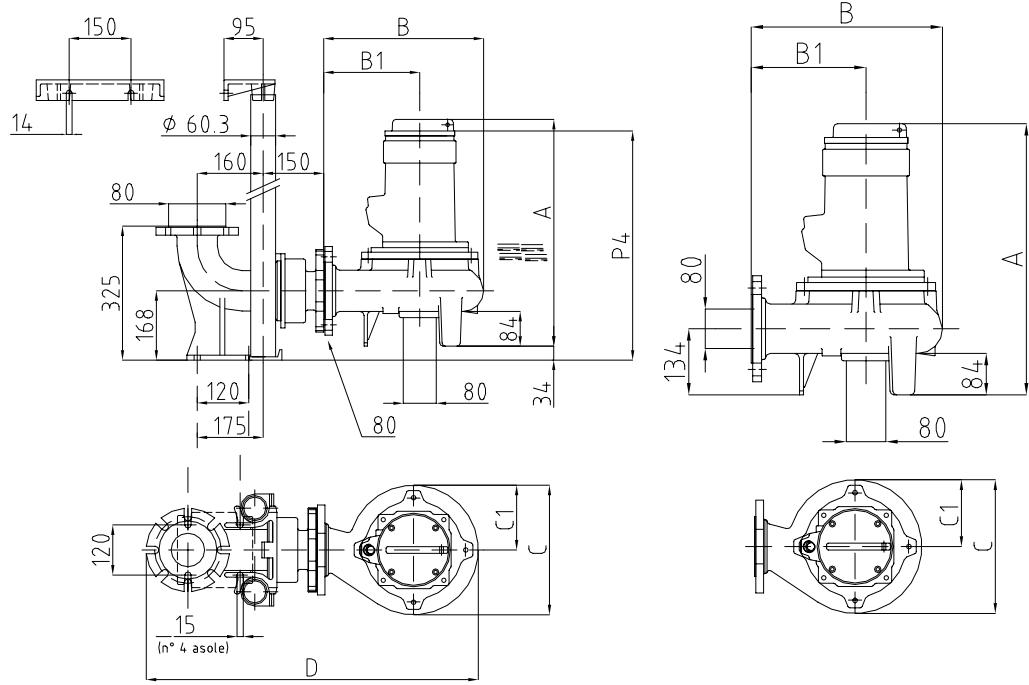
DIMENSIONI D'INGOMBRO

ГАБАРИТНЫЕ ЧЕРТЕЖИ

DIMENSIONS D'ENCOMBREMENT

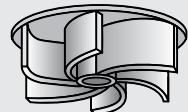
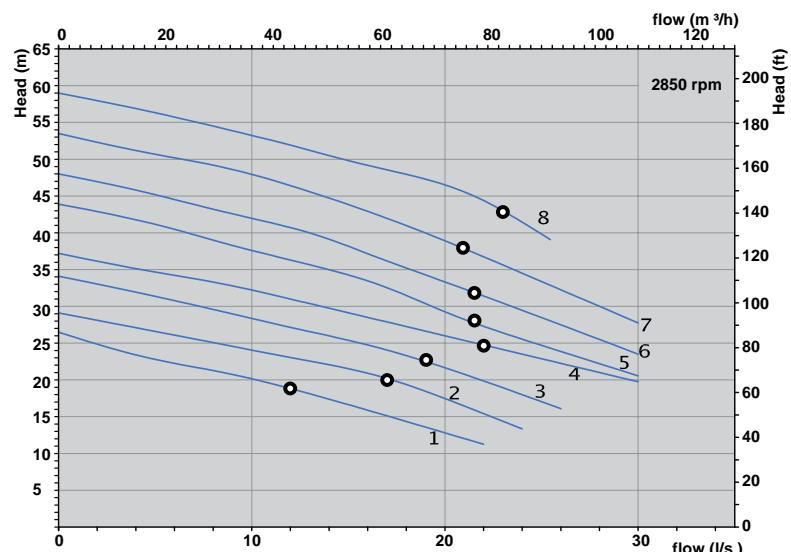
DIMENSIONES TOTALES

DIMENSÕES GLOBAIS



* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

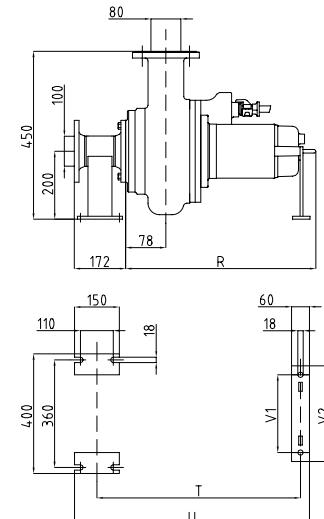
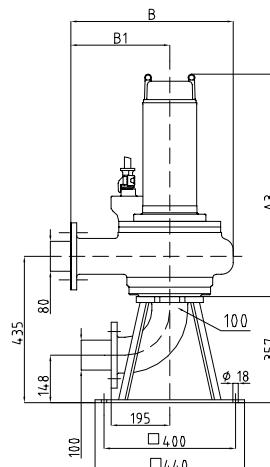
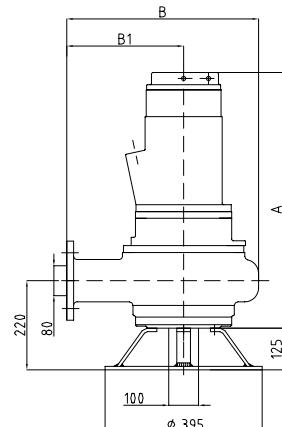
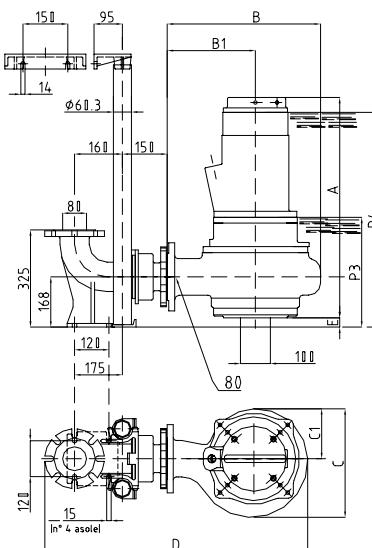
GB

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
COURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAISPERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ
PERFORMANCES - RENDIMENTO - EXECUÇÃO

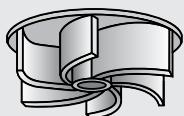
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec	0	4	8	12	16	20	24	28
									m³/h	0	14	29	43.2	57.6	72	86.4	100.8
1	GB - CV75 - FD	9.3	7.5	400	16	2850	80	80	H	26.5	23.2	21	18.8	16	12.8		
2	GB - CV95 - FD	10.8	9.5	400	19	2850	80	80	m	29.1	27.1	25.1	23	20.9	17.5		
3	GB - CV110 - FD	13.5	11	400	22	2850	80	80		34.1	32	29.6	27.1	24.9	21.8	18	
4	GB - CV190 - FD - R	21.8	19	400	37	2850	80	80		37.2	35	33.5	31	28.5	26	23.5	21
5	GB - CV190 - FD	22	19	400	37	2850	80	80		43.9	41.8	39	36.3	33.5	29.3	25.5	22.2
6	GB - CV220 - FD	25	22	400	40	2850	80	80		48	46	43	41.5	37	33.5	29.5	25.5
7	GB - CV240 - FD	27.5	24	400	46	2850	80	80		53.5	51	49.5	46.5	43	39	34.5	30
8	GB - CV280 - FD	28	28	400	49	2850	80	80		59	57	54.5	52	49	46.5	41.5	

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A max	A3 max	B	B1	C	C1	D	E	P2	P4	R max	T max	U max	V1	V2	V	KG
1	GB - CV75 - FD	643	775	365	220	312	147	780	71	420	700	740	738	843	260	320	80N	118
2	GB - CV95 - FD	690	775	365	220	312	147	780	71	420	745	740	738	843	260	320	80N	147
3	GB - CV110 - FD	690	775	365	220	312	147	780	71	420	745	740	738	843	260	320	80N	148
4	GB - CV190 - FD - R	765	945	365	220	312	147	780	71	420	820	1050	1075	1180	310	370	80N	170
5	GB - CV190 - FD	945	945	410	252	316	158	820	90	450	960	1050	1075	1180	310	370	80N	176
6	GB - CV220 - FD	945	945	410	252	316	158	820	90	450	960	1050	1075	1180	310	370	80N	180
7	GB - CV240 - FD	1035	1035	410	252	316	158	820	90	450	1050	1050	1075	1180	310	370	80N	206
8	GB - CV280 - FD	1035	1035	410	252	316	158	820	90	450	1050	1050	1075	1180	310	370	80N	208

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS

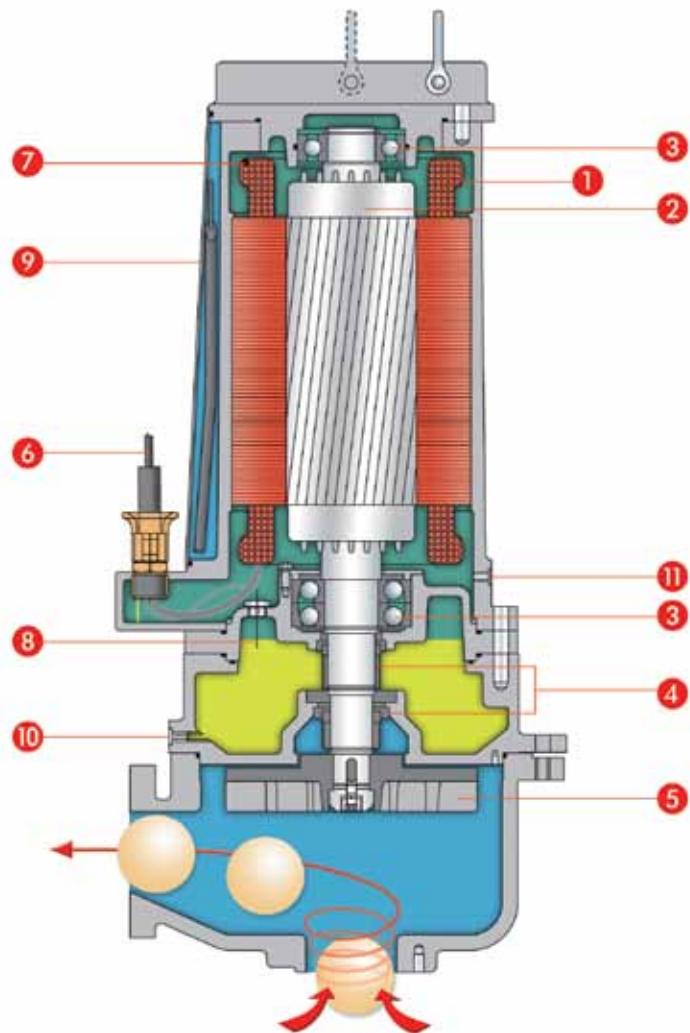
* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



Technical features Caratteristiche costruttive

Технические характеристики Caractéristiques de construction

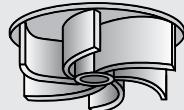
Características de construcción Características de construção



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 1450 - 2850 rpm.
Voltage: three-phase 3x380/415V-50 Hz.
Different voltage and frequency on request.
2. Shaft in stainless steel AISI 420
3. Pre-lubricated long-life bearings
4. Double mechanical seal in oil chamber
Water side: silicon carbide/silicon carbide
Motor side: silicon carbide/silicon carbide
5. Cast iron Vortex Impeller with high efficiency
6. Cable H07RNF
7. Thermal protection embedded in winding (optional)
8. Oil chamber probe (optional)
9. Cooling jacket
10. Oil inspection plug
11. Air plug hole for the motor water tightness control

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP68
Giri: 1450-2850 al min⁻¹
Voltaggio: trifase 3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta
2. Albero in acciaio AISI 420
3. Cuscinetti prelubrificati lunga vita
4. Doppia tenuta meccanica in camera d'olio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: carburo di silicio/carburo di silicio
5. Girante Vortex in ghisa ad alto rendimento
6. Cavo H07RNF
7. Protezione termica incorporata nell'avvolgimento (optional)
8. Sonda camera olio
9. Camicia di raffreddamento
10. Ispezione olio
11. Controllo tenuta stagna motore

G Series

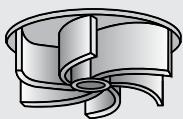


1. Полностью погружной двигатель с герметичным уплотнением. Класс изоляции Н. Класс защиты IP68. Скорость вращения: 1450-2850 об./мин. Напряжение: 3x380/415 В 50 Гц. Другие напряжения и частота под заказ.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники со смазкой
4. Двойное мех. уплотнение в масляной камере. С гидравлической стороны: карбид кремния/ карбид кремния Со стороны двигателя: карбид кремния/карбид кремния
5. Рабочее колесо вихревого типа из чугуна с высоким КПД
6. Кабель H07RNF
7. Встроенная теплозащита в обмотке (опция)
8. Датчик в масляной камере (опция)
9. Охлаждающая рубашка (опция)
10. Окошко для контроля масла
11. Контроль герметичности двигателя

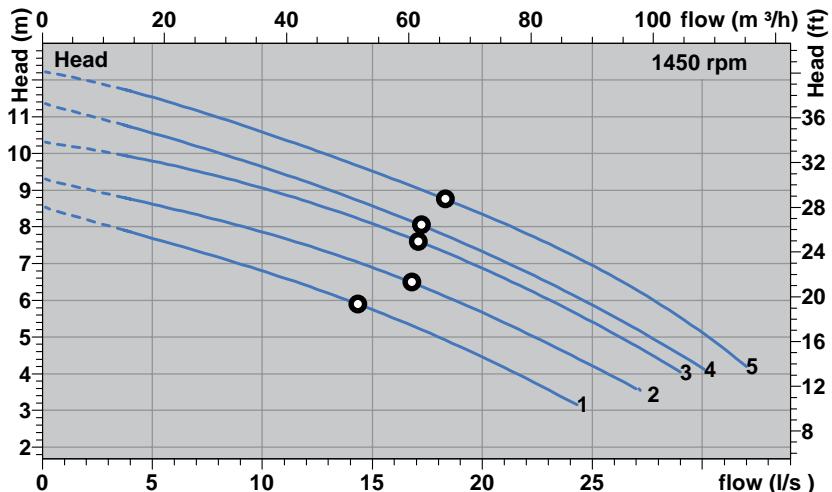
1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 1450 - 2850 rpm/min¹
Voltaje: trifásico 3 x 380/415V 50 Hz
Otros voltajes y frecuencias a demanda.
2. Eje Acero inoxidable AISI 420
3. Cojinetes sobredimensionados lubrificados indefinidamente
4. Doble cierre mecánico en cámara de aceite
Carburo de silicio/Carburo de silicio en el lado agua.
Carburo de silicio/Carburo de silicio en el lado motor.
5. Impulsor vortex de hierro fundido alta eficiencia
6. Cable H07RNF
7. Protector térmico en el bobinado (opcional)
8. Detector de infiltraciones en la cámara de aceite
9. Camisa de refrigeración (opcional)
10. Inspección aceite
11. Control de motor estanco

1. Moteur entièrement submersé étanche à l'eau
Classe d'isolation H. indice de protection IP 68
Vitesse de rotation: 1450 - 2850 tr/mn
Bobinage tri: 3x380/415V Fréquence: 50 Hz
Autres tensions et fréquences sur demande .
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile
Garniture inférieure: Carbure de silicium/Carbure de silicium
Garniture supérieure: Carbure de silicium/Carbure de silicium
5. Roue vortex en fonte à haute performance
6. Cable H07RNF
7. Protection thermique intégré dans le bobinage (en option)
8. DéTECTEUR d'infiltration dans la chambre à huile
9. Chemise de refroidissement
10. Inspection de l'huile
11. Contrôle moteur étanche à l'eau

1. Motor totalmente submerso estanco
Isolamentos em classe H. Grau de proteção IP 68
rpm: 1450 - 2850
Tensão: trifásica 3x380/415V-50
Outras tensões e frequências a pedido.
2. Eixo em aço AISI 420
3. Chumaceiras sobredimensionados isentos de manutenção
4. Duplo contenção na câmara óleo
Contenção inferior: carboneto de silício
Contenção superior: carboneto de silício
5. Giratória a vórtice em ferro fundido alta eficiência
6. Cabo H07RNF
7. Proteção térmica nas bobinas (opcional)
8. Detector da infiltração na câmara óleo (opcional)
9. Camisa de resfriamento
10. Inspeção de óleo
11. Controle motor estanco



GA - 4

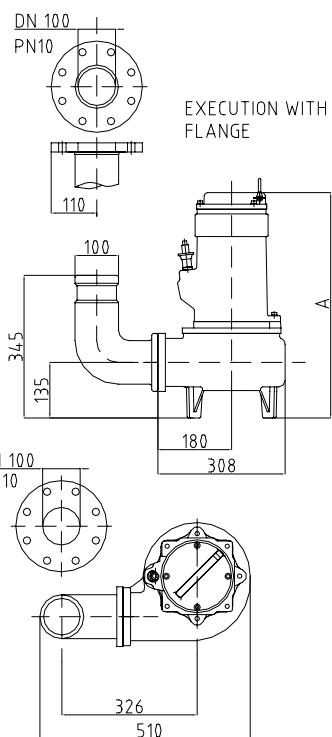
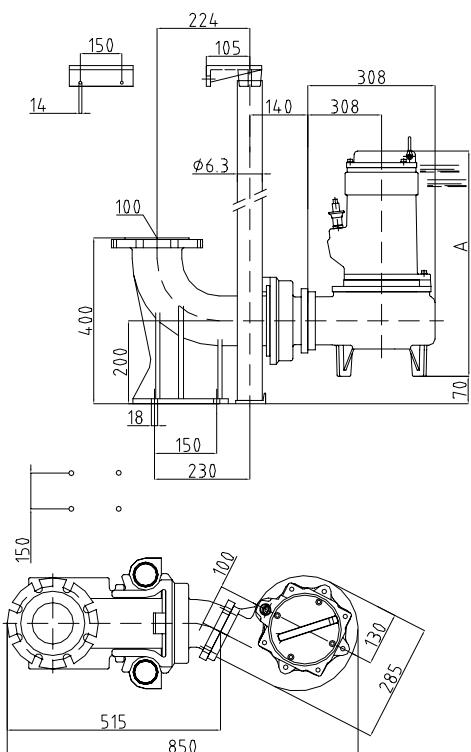
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERMANAS - RENDIMENTO - EXECUÇÃO										
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec	0	4	8	12	16	20	24	28	32
1	GA - CV22 - GT - 4	3	2.2	400	5.5	1450	100	80		8.6	7.8	7.2	6.4	5.6	4.5	3.3		
2	GA - CV35 - GT - 4R	4	3.5	400	7.5	1450	100	80	H m	9.4	8.7	8.2	7.6	6.8	5.7	4.5	3.6	
3	GA - CV35 - GT - 4	4	3.5	400	8	1450	100	80		10.3	9.8	9.4	8.8	8	6.9	5.8	4.4	
4	GA - CV42 - GT - 4	4.4	4.2	400	9.2	1450	100	80		11.4	10.7	10	9.3	8.4	7.3	6.4	4.9	
5	GA - CV55 - GD - 4	6	5.5	400	11	1450	100	80		12.3	11.7	11	10.2	9.4	8.4	7.2	6	
									m³/h	0	14	29	43.2	57.6	72	86.4	100.8	115.2

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ
DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

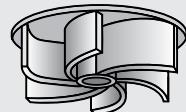
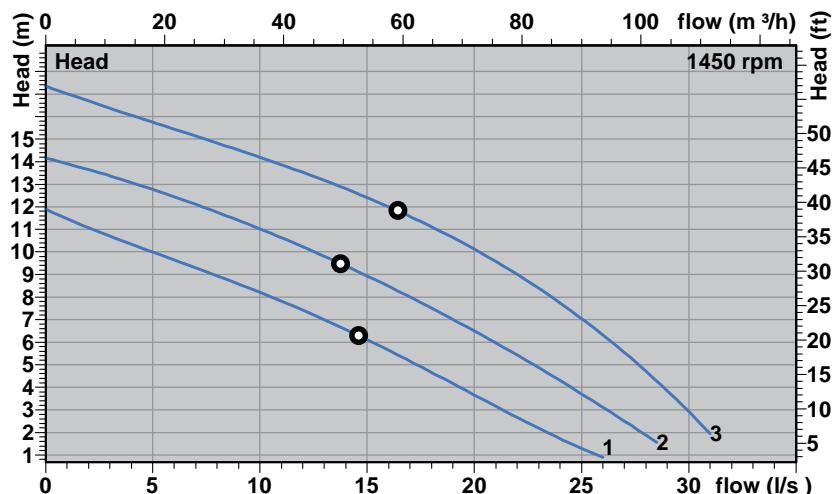
Nr	Modello - Type	A max	V	KG
1	GA - CV22 - GT - 4	462	100	52
2	GA - CV35 - GT - 4R	610	100	55
3	GA - CV35 - GT - 4	610	100	55
4	GA - CV42 - GT - 4	610	100	55
5	GA - CV55 - GD - 4	580	100	59

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



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GB - 4

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	\emptyset mm	Performances - Prestazioni - РАБОЧИЕ ПАРАМЕТРЫ - Performances - RENDIMENTO - EXECUÇÃO									
									l/sec	0 m³/h	4	8	12	16	20	24	28	
1	GB - CV22 - ET - 4	3	2.2	400	5.5	1450	67	67	H m	11.9	10.3	8.8	7.4	5.7	3.7	1.7		
2	GB - CV35 - ET - 4	4.5	3.5	400	8	1450	67	67		14	12.8	11.6	10.2	8.6	6.6	4.4	1.7	
3	GB - CV50 - ET - 4	6.2	5	400	11	1450	67	67		17.3	16	14.9	13.7	12.2	10.2	7.7	4.6	

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A max	A1	A2	D	D1	E	J	X	Y	Z	Z1	Z3	Z4	Z6	V	KG
1	GB - CV22 - ET - 4	547	300	160	732	361	68	130	139	42.4	84	100	90	100	137	65	78
2	GB - CV35 - ET - 4	547	300	160	732	361	68	130	139	42.4	84	100	90	100	137	65	78
3	GB - CV50 - ET - 4	596	322	164	802	431	72	164	168	60.5	95	150	116	120	163	80	105

DIMENSION DRAWINGS

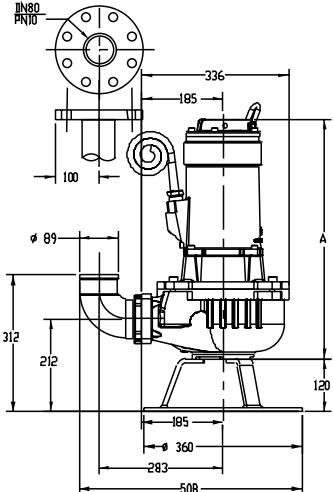
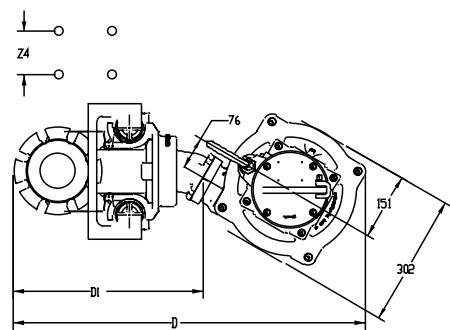
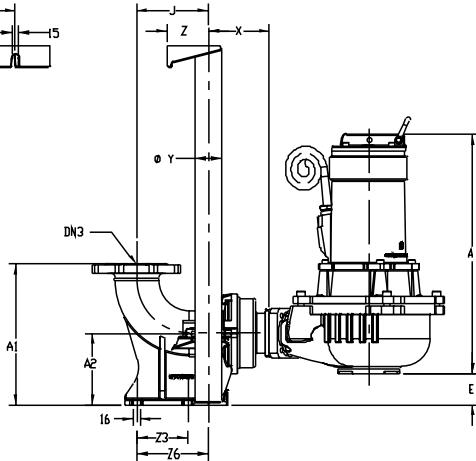
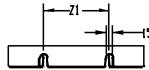
DIMENSIONI D'INGOMBRO

ГАБАРИТНЫЕ ЧЕРТЕЖИ

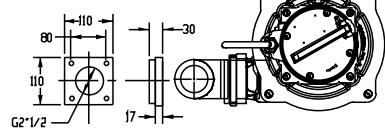
DIMENSIONS D'ENCOMBREMENT

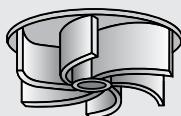
DIMENSIONES TOTALES

DIMENSÕES GLOBAIS

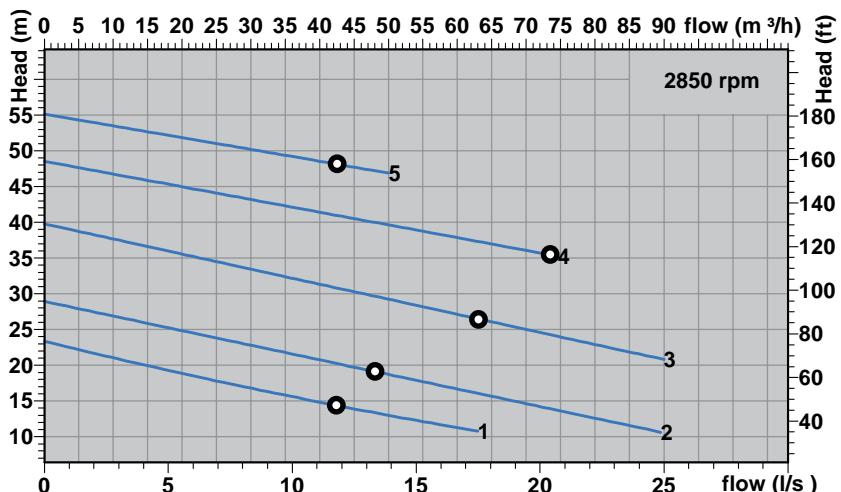


EXECUTION WITH SQUARE FLANGE 2 1/2"





GB

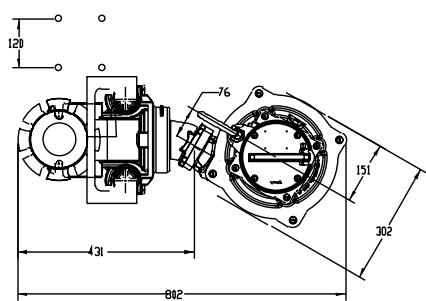
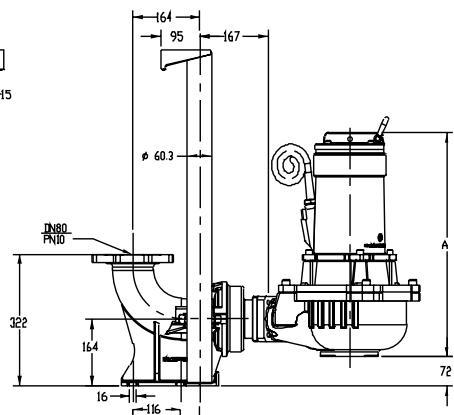
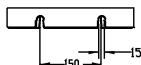
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO									
Nr	Modello - Type	P1	P2	Volt	Amp	Giri rpm	DN	Ø mm	I/sec	0	4	8	12	16	20	24	28
		kW	kW						m³/h	0	14.4	28.8	43.2	57.6	72	86.4	100.8
1	GB - CV55 - ED	6.8	5.5	400	12	2850	67	67		23.3	20	17	14	11.8			
2	GB - CV75 - ED	9.5	7.5	400	16	2850	67	67		28.6	26.1	23.1	20	17	14		
3	GB - CV110 - ED	12.5	11	400	22	2850	67	67		38.9	36.7	35	32	28.1	24.3	20.6	
4	GB - CV150 - ED	16.5	15	400	30	2850	67	67		48	46	43.1	41	38.1	35.7		
5	GB - CV185 - ED	20.8	18	400	32	2850	67	67		54.9	53	50	48				

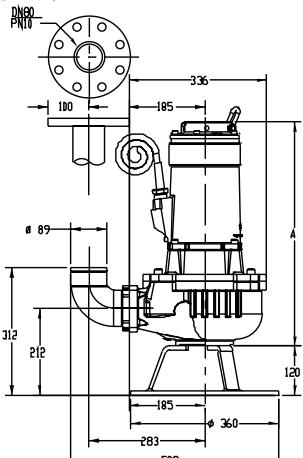
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE -
УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMEN-
SIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A max	V	KG
1	GB - CV55 - ED	596	80	84
2	GB - CV75 - ED	612	80	121
3	GB - CV110 - ED	658	80	131
4	GB - CV150 - ED	734	80	157
5	GB - CV185 - ED	734	80	161

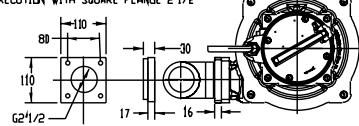
DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



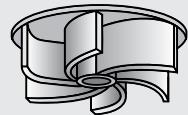
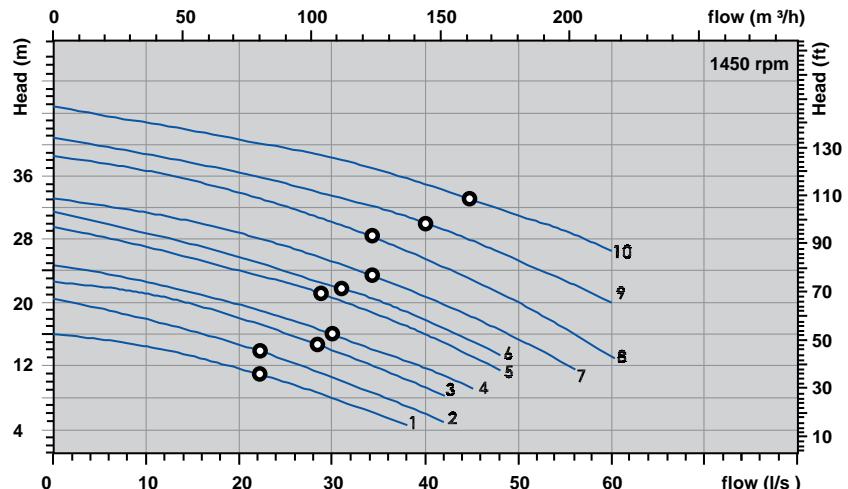
EXECUTION WITH FLANGE



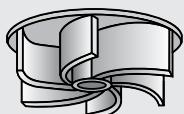
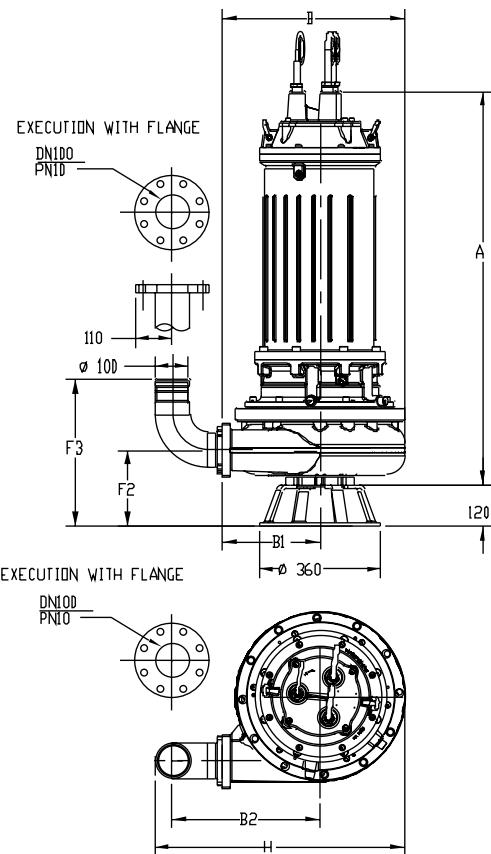
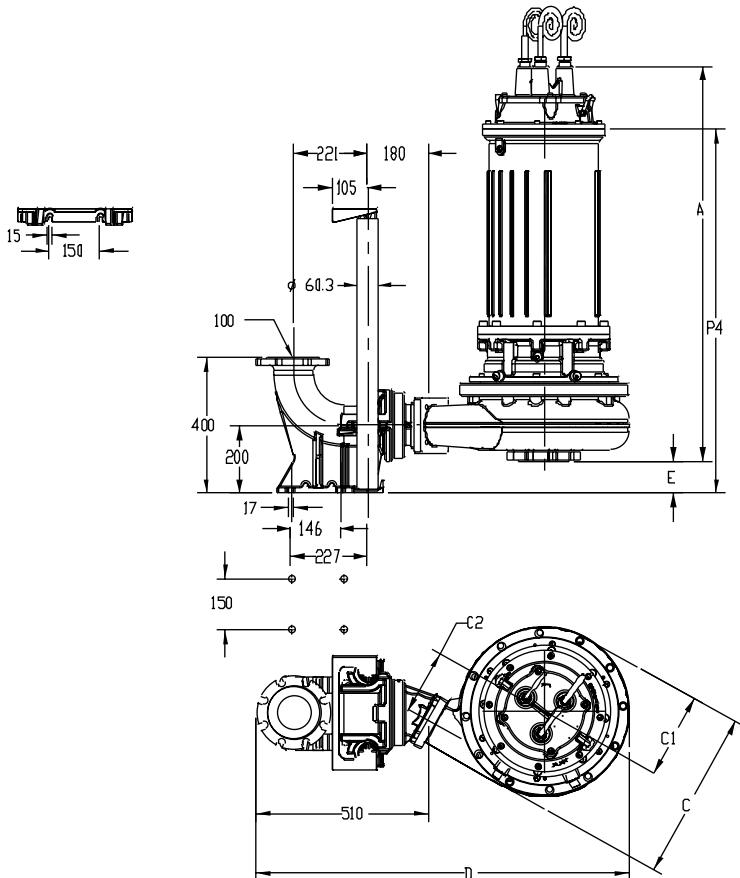
EXECUTION WITH SQUARE FLANGE 2 1/2



GB - 4

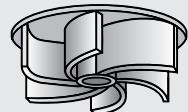
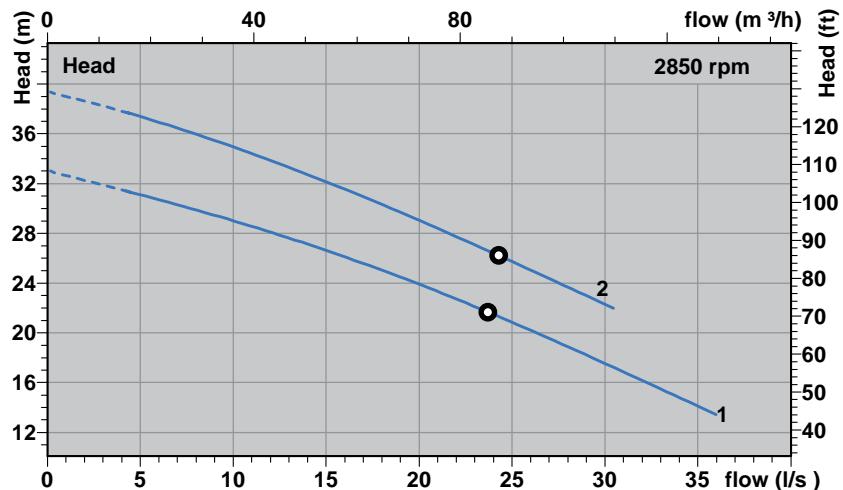
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANZEN - RENDIMENTO - EXECUÇÃO															
									I/sec m³/h	0	5	15	25	30	35	40	45	50	55	60	65	70	75	
1	GB - CV60 - GD - 4	7	6	400	13.8	1450	100	100		16	15.5	13.2	10.1	8.1	5.9									
2	GB - CV75 - GD - 4	9	7.5	400	16	1450	100	100		20.5	19.4	16.5	12.6	10.5	8.4	6								
3	GB - CV110 - GD - 4	12.5	11	400	22	1450	100	100		22.5	22	19.6	16	13.7	11.4	9.2								
4	GB - CV140 - GD - 4	17	14	400	30	1450	100	100		24.5	23.5	21.2	18	15.7	13.6	11.5	9.1							
5	GB - CV170 - GD - 4R	20.8	17	400	30	1450	100	100	H m	29.5	28.3	25.7	22.5	20.6	18.5	16.2	13.4							
6	GB - CV170 - GD - 4	21.5	17	400	35	1450	100	100		31.5	30.1	27.3	24.1	22.4	20	17.6	15.1							
7	GB - CV220 - GD - 4	24.5	22	400	45	1450	100	100		33	32.2	30	27.4	25.5	23.2	20.7	18	15	12					
8	GB - CV260 - GD - 4	30	26	400	50	1450	100	100		38.5	37.7	35	32.1	30.2	28.2	25.8	23.2	20.2	16.5	12.5				
9	GB - CV340 - GD - 4	39	34	400	68	1450	100	100		41.5	39.9	37.9	35.5	33.6	31.9	30	27.7	25.2	23	20				
10	GB - CV480 - GD - 4	54.5	48	400	88	1450	100	100		44.5	43.6	41.8	39.6	38.2	36.7	34.9	33	31	29	26.8				

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS

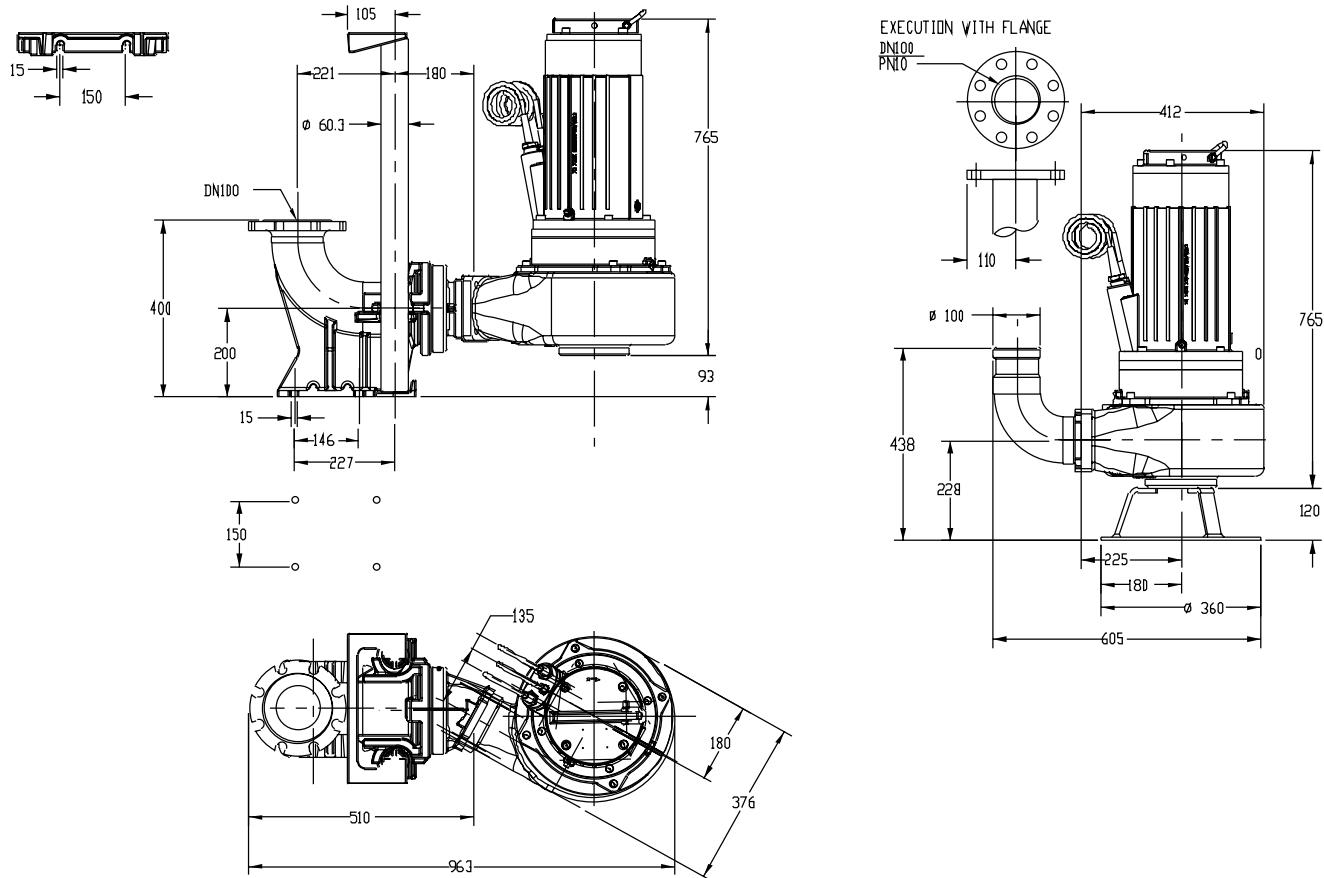
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO																
Nr	Modello - Type	A max	B	B1	B2	C	C1	C2	D	E	F2	F3	H	P4	V	KG
1	GB - CV60 - GD - 4	643	412	225	375	374	196	135	951	96	434	224	605	695	100	116
2	GB - CV75 - GD - 4	643	412	225	375	374	196	135	951	96	434	224	605	695	100	126
3	GB - CV110 - GD - 4	689	412	225	375	374	196	135	951	96	434	224	605	735	100	144
4	GB - CV140 - GD - 4	795	541	290	440	502	251	191	1103	92	425	215	750	837	100	184
5	GB - CV170 - GD - 4R	795	541	290	440	502	251	191	1103	92	425	215	750	837	100	196
6	GB - CV170 - GD - 4	795	541	290	440	502	251	191	1103	92	425	215	750	837	100	200
7	GB - CV220 - GD - 4	828	541	290	440	502	251	191	1103	92	425	215	750	864	100	230
8	GB - CV260 - GD - 4	828	541	290	440	502	251	191	1103	92	425	215	750	864	100	251
9	GB - CV340 - GD - 4R	1026	541	290	440	502	251	191	1103	92	425	215	750	932	100	341
10	GB - CV340 - GD - 4	1172	541	290	440	502	251	191	1103	92	425	215	750	1078	100	442

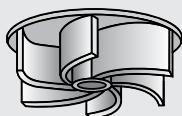
GB

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

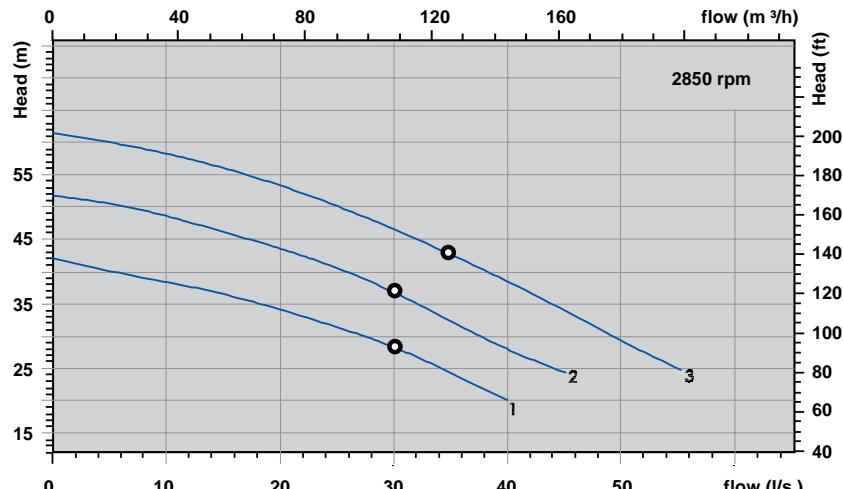
Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	Ø	V	KG	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ						
		kW	kW	Volt	Amp	rpm	mm	m	m	l/sec	0	5	15	25	30	35	40
1	GB - CV150 - GD - R	18.5	15	400	33	2850	100	100	100	165	H	33	31	26.6	20.8	17.6	14
2	GB - CV150 - GD	18.5	15	400	33	2850	100	100	100	215	m	39.5	37.2	32.2	25.9	22	

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИНТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS





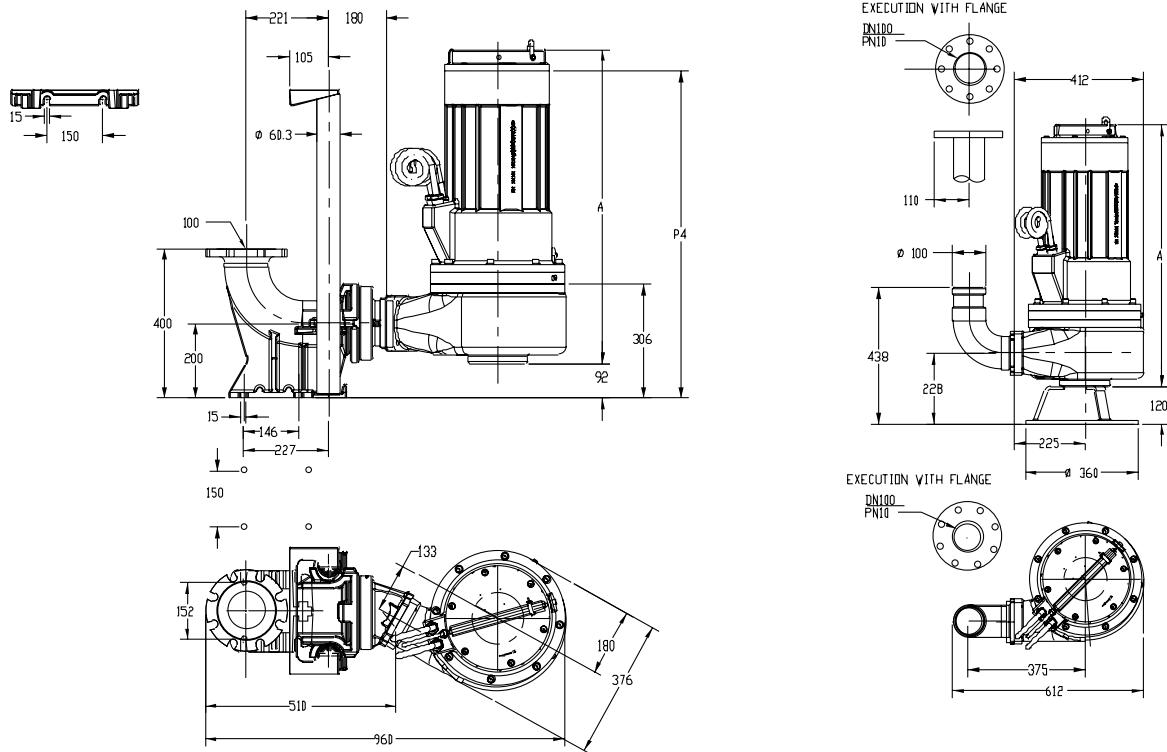
GB

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
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CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

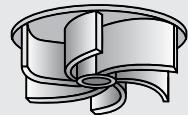
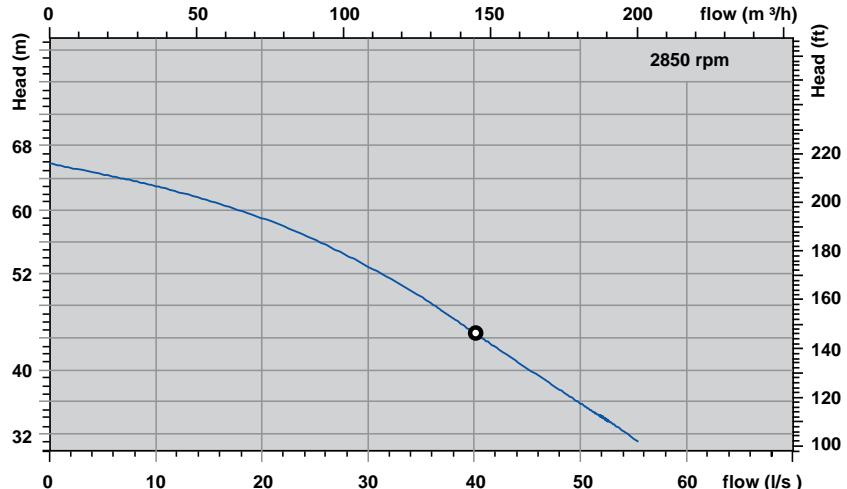
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	\varnothing mm	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO										
									l/sec	0	5	15	25	30	35	40	45	50	55
m³/h	0	18	54	90	108	126	144	162	180	198									
1	GB - CV250 - GD	29	25	400	44	2850	100	90	H	42	40.5	37	31	28	24	20			
2	GB - CV370 - GD	40	37	400	67	2850	100	90	m	51.5	50.3	46	40.3	36.7	32.2	27.9	24.7		
3	GB - CV480 - GD	52	48	400	80	2850	100	90		61.5	61.5	56	49.8	46.5	42.6	38.7	33.5	29	24.5

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ
DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A max	P4	V	KG		
						DN100	DN110
1	GB - CV250 - GD	840	875	100	240		
2	GB - CV370 - GD	1011	917	100	325		
3	GB - CV480 - GD	1174	1072	100	368		

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS

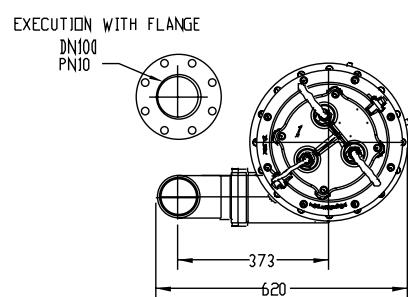
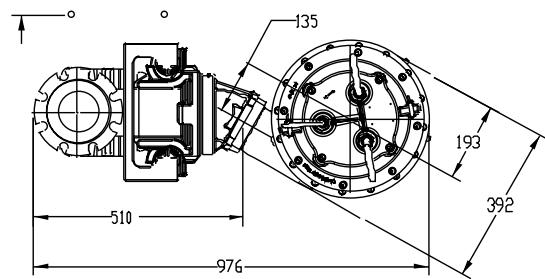
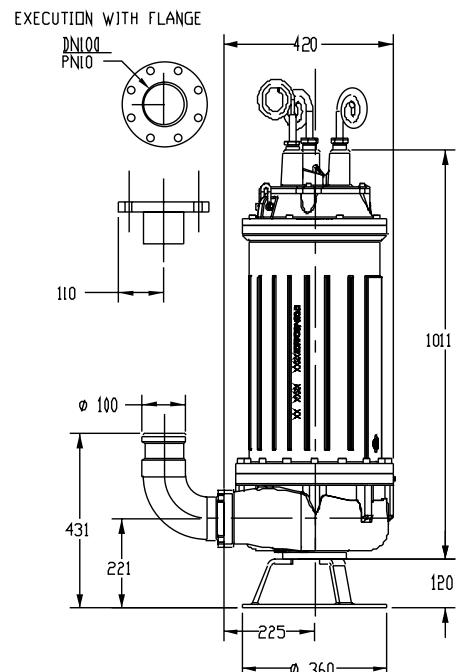
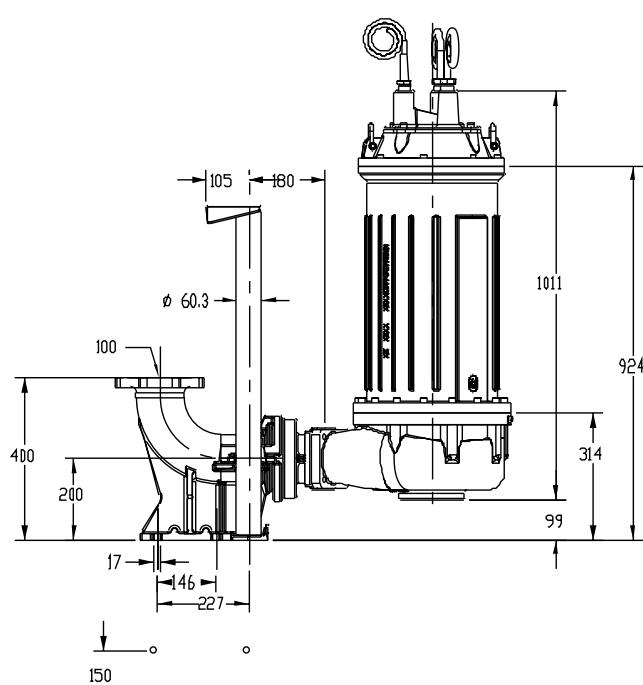
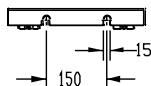
GB

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
COURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec	0	5	15	25	30	35	40	45	50	55	60
		m³/h	m³/h						m³/h											
1	GB - CV500 - GD	55	50	400	89	2850	100	80	H m	65.5	64.5	61.1	56.3	52.9	49	44.7	40.5	36	31.4	216

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS





GT Series

Submersible pumps

Grinder

GT - Series

0.75 ÷ 9.5 kW

Discharge size

1¹/₂ - DN 50

Elettropompe sommersibili

Trituratrici

Serie GT

0.75 ÷ 9.5 kW

Mandata

1¹/₂ - DN 50

Погружные электронасосы

С измельчителем

Серия GT

0.75 ÷ 9.5 kW

выходное отверстие

1¹/₂ - DN 50

Electropompes submersibles

Avec dilacérateur

Série GT

0.75 ÷ 9.5 kW

Diam. refoulement

1¹/₂ - DN 50

Bombas sumergibles

Turbina con triturador

Modelo GT

0.75 ÷ 9.5 kW

Diámetro impulsión

1¹/₂ - DN 50

Bombas eléctricas submergíveis

Com sistema triturador

Série GT

0.75 ÷ 9.5 kW

Diâmetro boca

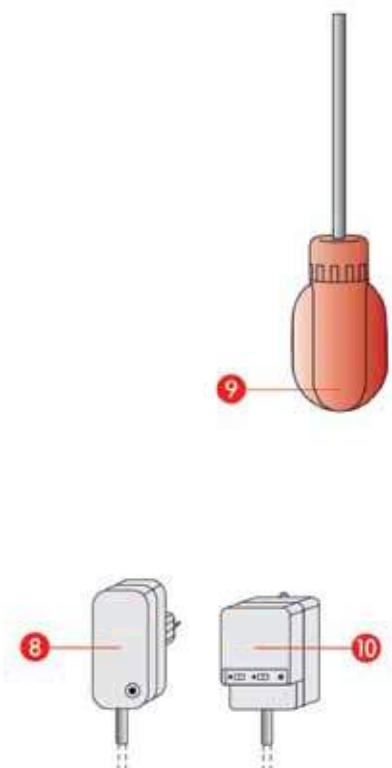
1¹/₂ - DN 50



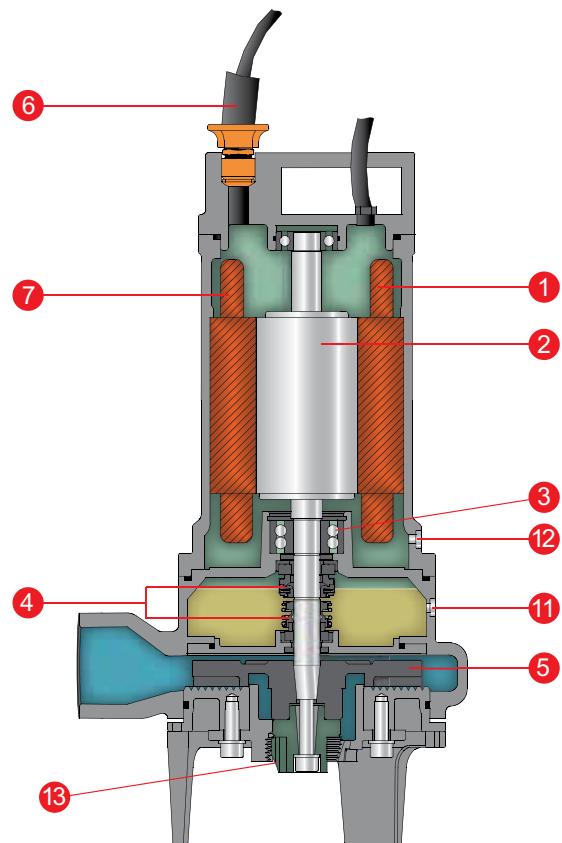
GT Series



Technical features Caratteristiche costruttive



Технические характеристики Caractéristiques de construction



Características de construcción Características de construção

1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 2850 rpm. Voltage: single-phase 1x230V-50 Hz
Three-phase 3x380/415V-50 Hz.
Different voltage and frequency on request.
2. Shaft in stainless steel AISI 420
3. Heavy duty bearings for long life
4. Double mechanical seal in oil chamber
Water side: silicon carbide/silicon carbide
Motor side: graphite/alumina
5. Open Impeller with cutting device
6. Cable H07RNF
7. Thermal protection embedded in winding
8. Plug with capacitor
9. Float switch regulator
10. AET-AEM electrical gear for three-phase and single-phase execution
11. Oil inspection plug
12. Air plug hole for the motor water tightness control
13. Cutting device

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP 68
Giri: 2850 al min⁻¹
Voltaggio: monofase 1x230V-50 Hz e trifase
3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta.
2. Albero in acciaio AISI 420
3. Cuscinetti sovradianimensionati lunga vita
4. Doppia tenuta meccanica in camera d'olio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: grafite/allumina
5. Girante aperta con trituratore
6. Cavo H07RNF
7. Protezione termica incorporata nell'avvolgimento
8. Spina con condensatore
9. Galleggiante
10. AET-AEM quadro elettrico per versione trifase e monofase
11. Ispezione olio
12. Controllo tenuta stagna motore
13. Trituratore



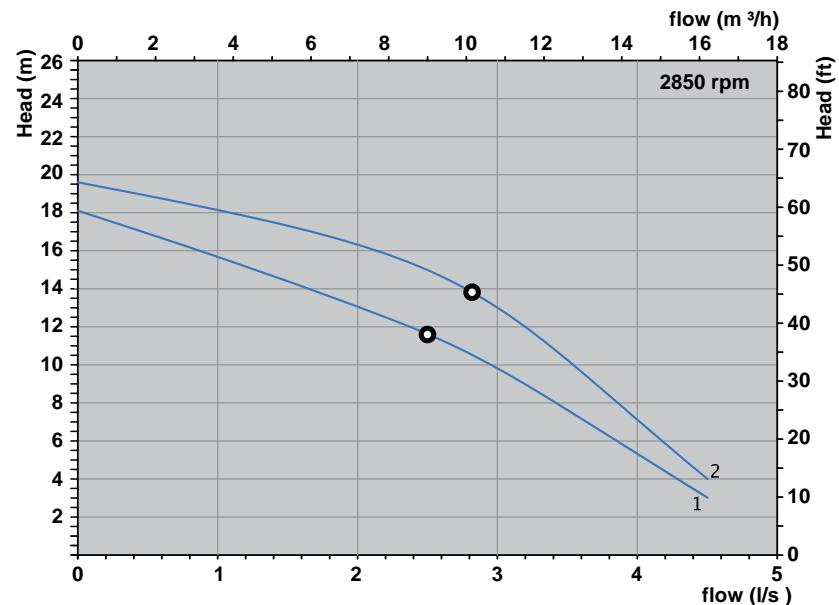
1. Герметичный полностью погружной двигатель. Класс изоляции Н. Класс защиты IP68.
Скорость вращения: 2850 об./мин.
Напряжение: монофазное 1x230 В 50 Гц и трехфазное 380/415 В 50 Гц.
Другие напряжения и частота под заказ.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники со смазкой
4. Двойное мех. уплотнение в масляной камере
С гидравлической стороны: карбид кремния/ карбид кремния
Со стороны двигателя: графит/оксид алюминия
5. Открытое рабочее колесо с измельчителем
6. Кабель H07RNF
7. Теплозащита в обмотке
8. Вилка с конденсатором
9. Плавковый выключатель
10. АЕТ-АЕМ пульт управления для трехфазного и монофазного варианта
11. Окошко для контроля масла
12. Контроль герметичности двигателя
13. Измельчитель

1. Moteur entièrement submersé étanche à l'eau
Classe d'isolation H. indice de protection IP 68
Vitesse de rotation: 2850 tr/mn
Bobinage mono: 1x 230V Fréquence: 50 Hz - tri:
3x380/415V Fréquence: 50 Hz
Autres tensions et fréquences sur demande.
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile
Garniture inférieur: Carbure de silicium/Carbure de silicium
Garniture supérieure: graphite/allumine
5. Roue ouvert avec dilacérateur
6. Cable H07RNF
7. Protection termique intégré dans le bobinage
8. Discontacteur avec condensateur
9. Flotteur
10. Coffret électrique de commande AET-AEM pour mono et tri version
11. Inspection de l'huile
12. Contrôle moteur étanche à l'eau
13. Dilacérateur

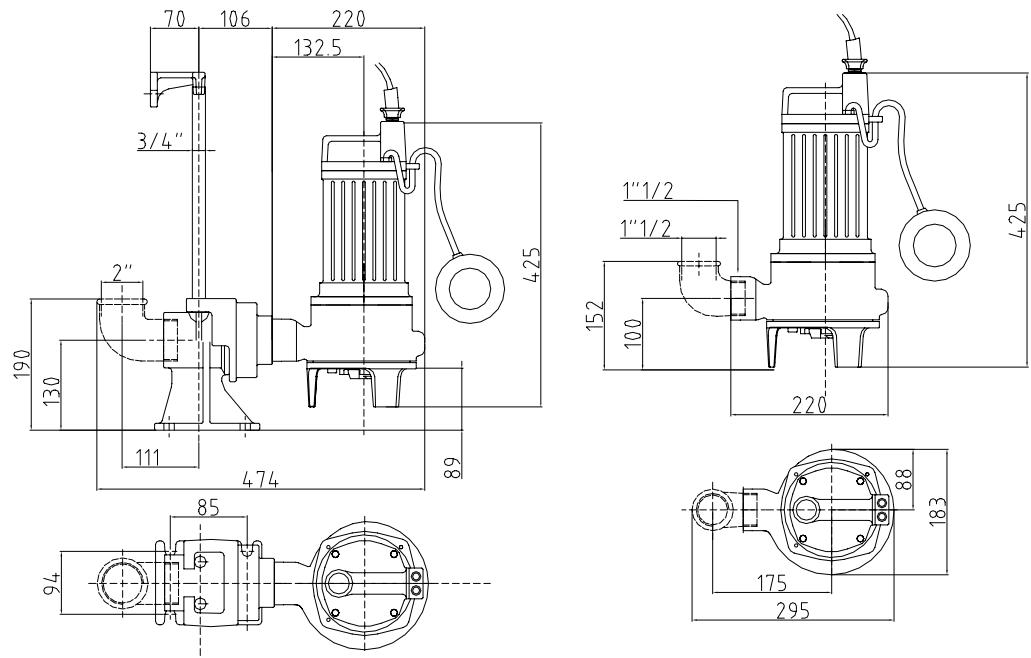
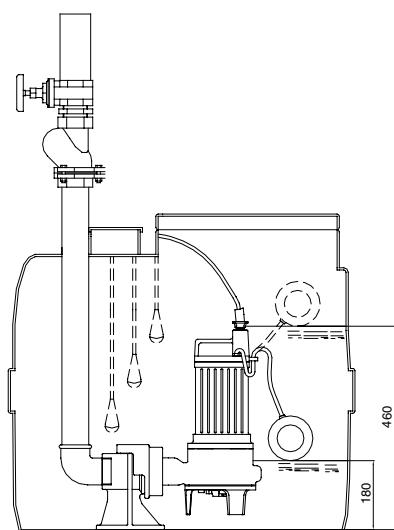
1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 2850 rpm/min⁻¹
Voltaje: monofásico 50 Hz 1x230V- trifásico 3x380/415V 50 Hz
Otros voltajes y frecuencias a demanda.
2. Eje Acero inoxidable AISI 420
3. Cojinetes sobredimensionados lubrificados indefinidamente
4. Doble cierre mecánico en cámara de aceite
Carburo de silicio/Carburo de silicio en el lado agua.
Grafito/Acero templado en el lado motor.
5. Impulsor abierto con triturador
6. Cable H07RNF
7. Protector térmico en el bobinado
8. Espina condensador
9. Interruptor de boya para funcionamiento automático
10. AET-AEM Cuadros eléctricos para motores trifásicos o monofásicos
11. Inspección aceite
12. Control de motor estanco
13. Triturador

1. Motor totalmente submerso estanque
Isolamentos em classe H. Grau de proteção IP 68
rpm: 2850
Tensão: monofásica e trifásica 1x230V Hz-50 Hz
3x380/415V-50
Outras tensões e frequências a pedido.
2. Eixo em aço AISI 420
3. Chumaceiras sobredimensionados isentas de manutenção
4. Duplo fechamento mecânico na câmara óleo
Contenção inferior: carboneto de silício
Contenção superior: grafito/allumina
5. Giratória aberta com sistema triturador
6. Cabo H07RNF
7. Proteção térmica nas bobinas
8. Spina capacitores
9. Regulador de nível
10. AET-AEM painel elétrico para versão monofásica e trifásica
11. Inspeção de óleo
12. Controle motor estanque
13. Triturador

GT

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1 kW	P2 kW	Volt	μ F	Amp	Giri rpm	DN	\varnothing mm	V	KG	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO						
		l/sec	0	1	2	3	4	4.5	5	m ³ /h	0	4	7	10.8	14.4	16.2	18	
1	GT - CV07 - CM-A	0.9	0.75	230	22	5.5	2850	1" 1/2	6	40N	24	18.1	15.8	13.1	9.8	5.3	3	
1	GT - CV07 - CT	0.9	0.75	400		2.7	2850	1" 1/2	6	40N	24	H	18.1	15.8	13.1	9.8	5.3	3
2	GT - CV11 - CM-A	1.3	1.1	230	30	7.5	2850	1" 1/2	6	40N	25	m	19.6	18.1	16.2	13	7	4
2	GT - CV11 - CT-R	1.3	1.1	400		3.2	2850	1" 1/2	6	40N	25		19.6	18.1	16.2	13	7	4

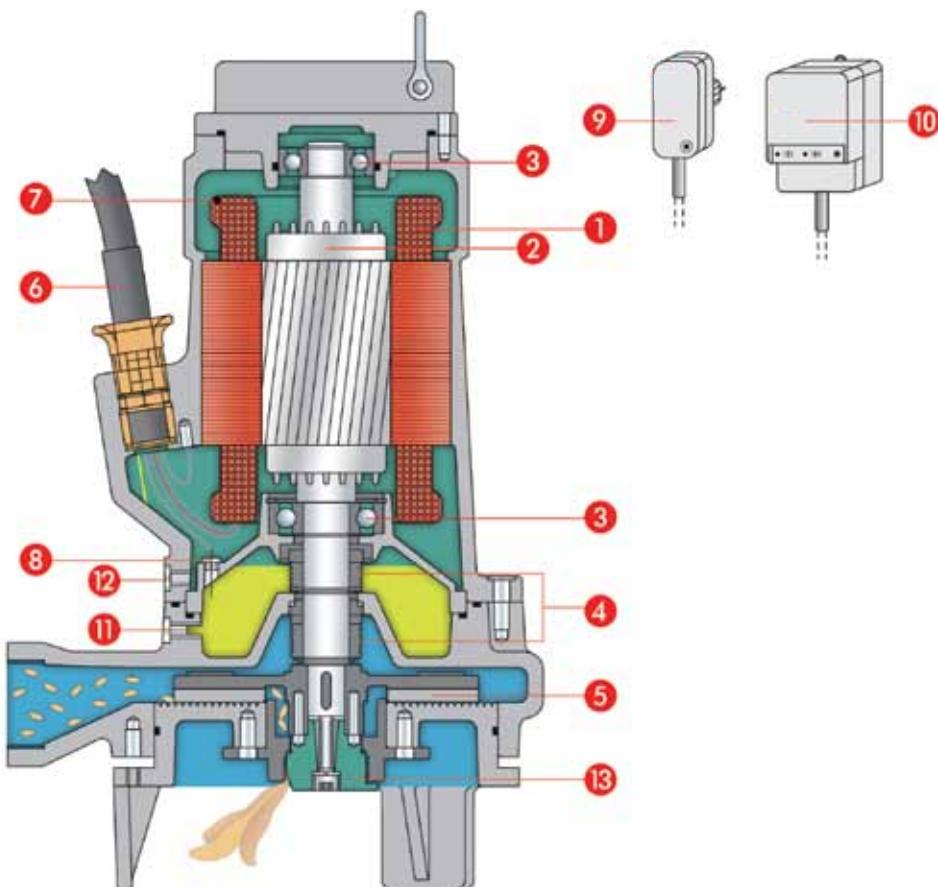
DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAISINSTALLATION TYPE
INSTALLAZIONE TIPO
ТИПИЧНАЯ УСТАНОВКА
TYPE D'INSTALLATION
EJEMPLO DE INSTALACIÓN
EXEMPLO DE INSTALAÇÃO



Technical features Caratteristiche costruttive

Технические характеристики Caractéristiques de construction

Características de construcción Características de construção



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Insulation class H. Protection degree IP 68
Speed: 2850 rpm. Voltage: single-phase 1x230V-50 Hz
Three-phase 3x380/415V-50 Hz.
Different voltage and frequency on request. A
2. Shaft in stainless steel AISI 420
3. Heavy duty Bearings for long life
4. Double mechanical seal in oil chamber
Water side: silicon carbide/silicon carbide
Motor side: graphite/alumina
5. Open Impeller with cutting device
6. Cable H07RNF
7. Thermal protection embedded in winding
8. Oil chamber probe
9. Plug with capacitor
10. AET-AEM electrical gear for three-phase and single-phase execution
11. Oil inspection plug
12. Air plug hole for the motor water tightness control
13. Cutting device

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP 68
Giri: 2850 al min⁻¹
Voltaggio: monofase 1x230V-50 Hz e trifase
3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta.
2. Albero in acciaio AISI 420
3. Cuscinetti sovrardimensionati lunga vita
4. Doppia tenuta meccanica in camera d'olio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: grafite/allumina
5. Girante aperta con trituratore
6. Cavo H07RNF
7. Protezione termica incorporata nell'avvolgimento
8. Sonda camera olio
9. Spina con condensatore
10. AET-AEM quadro elettrico per versione trifase e monofase
11. Ispezione olio
12. Controllo tenuta stagna motore
13. Trituratore

GT



1. Герметичный полностью погружной двигатель. Класс изоляции Н. Класс защиты IP68.
Скорость вращения: 2850 об./мин.
Напряжение:monoфазное 1x230 В 50 Гц и трехфазное 380/415 В 50 Гц.
Другие напряжения и частота под заказ.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники со смазкой
4. Двойное мех. уплотнение в масляной камере
С гидравлической стороны: карбид кремния/ карбид кремния
Со стороны двигателя: графит/оксид алюминия
5. Открытое рабочее колесо с измельчителем
6. Кабель H07RNF
7. Теплозащита в обмотке
8. Датчик в масляной камере (опция)
9. Вилка с конденсатором
10. AET-AEM пульт управления для трехфазного и монофазного варианта
11. Окошко для контроля масла
12. Контроль герметичности двигателя
13. Измельчитель

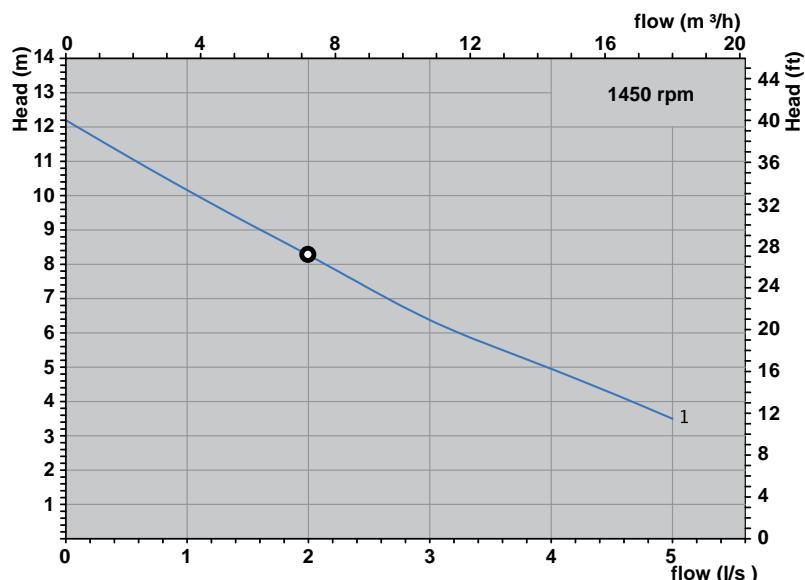
1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 2850 rpm/min⁻¹
Voltaje: monofásico 50 Hz 1x230V- trifásico 3x380/415V 50 Hz
Otros voltajes y frecuencias a demanda.
2. Eje Acero inoxidable AISI 420
3. Cojinetes sobredimensionados lubrificados indefinidamente
4. Doble cierre mecánico en cámara de aceite
Carburo de silicio/Carburo de silicio en el lado agua.
Grafito/Acero templado en el lado motor.
5. Impulsor abierto con triturador
6. Cable H07RNF
7. Protector térmico en el bobinado
8. Detector de infiltraciones en la cámara de aceite
9. Espina condensador
10. AET-AEM Cuadros eléctricos para motores trifásicos o monofásicos
11. Inspección aceite
12. Control de motor estanco
13. Triturador

1. Moteur entièrement submersé étanche à l'eau
Classe d'isolation H. indice de protection IP 68
Vitesse de rotation: 2850 tr/mn
Bobinage mono: 1x 230V Fréquence: 50 Hz - tri:
3x380/415V Fréquence: 50 Hz
Autres tensions et fréquences sur demande.
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile
Garniture inférieure: Carbure de silicium/Carbure de silicium
Garniture supérieure: graphite/alumine
5. Roue ouvert avec dilacérateur
6. Cable H07RNF
7. Protection termique intégré dans le bobinage
8. DéTECTeur d'infiltration dans la chambre à huile
9. Discontacteur avec condensateur
10. Coffret électrique de commande AET-AEM pour mono et tri version
11. Inspection de l'huile
12. Contrôle moteur étanche à l'eau
13. Dilacérateur

1. Motor totalmente submerso estanque
Isolamentos em classe H. Grau de proteção IP 68
rpm: 2850
Tensão: monofásica e trifásica 1x230V Hz-50 Hz
3x380/415V-50
Outras tensões e frequências a pedido.
2. Eixo em aço AISI 420
3. Chumaceiras sobredimensionados isentes de manutenção
4. Duplo contenção na câmara óleo
Contenção inferior: carboneto de silício
Contenção superior: grafite/allumina
5. Giratória aberta com sistema triturador
6. Cabo H07RNF
7. Proteção térmica nas bobinas
8. Detector da infiltração na câmara óleo
9. Spina capacitores
10. AET-AEM painel elétrico para versão monofásica e trifásica
11. Inspeção de óleo
12. Controle motor estanque
13. Triturador

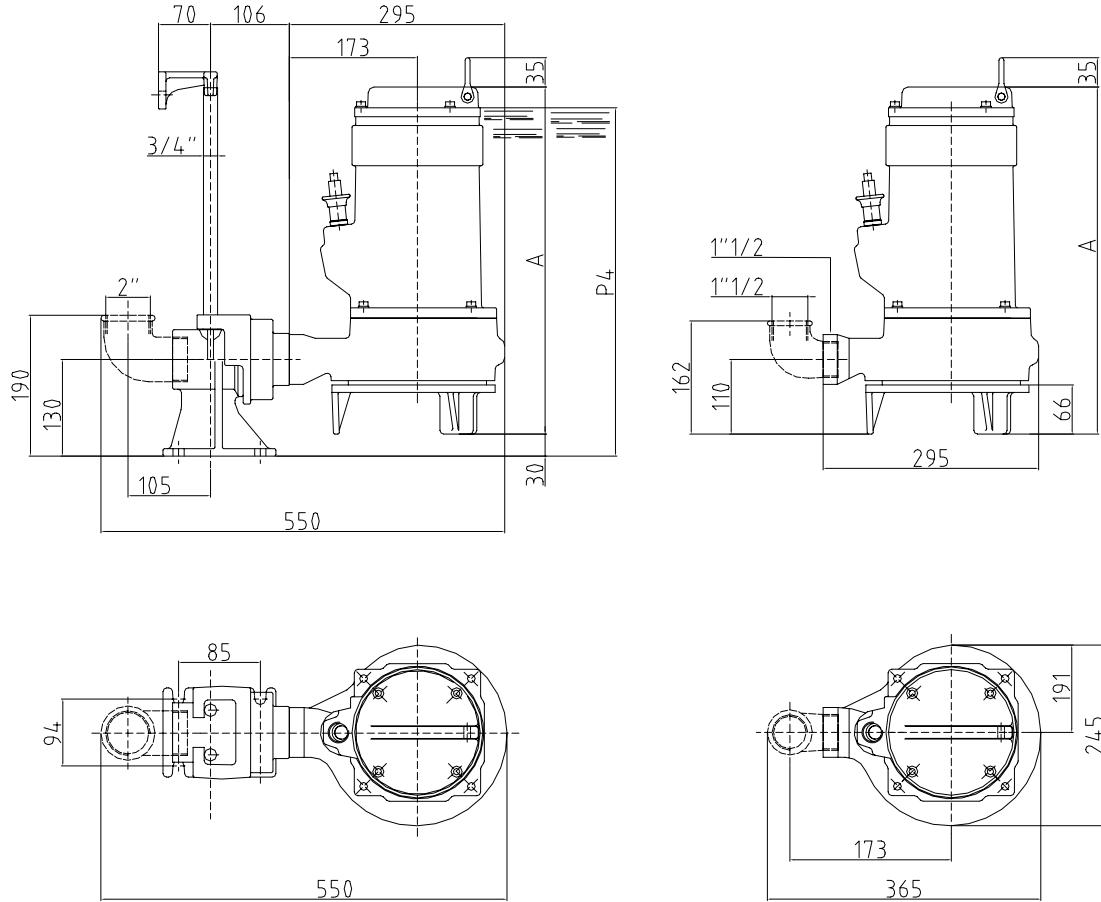


GT - 4

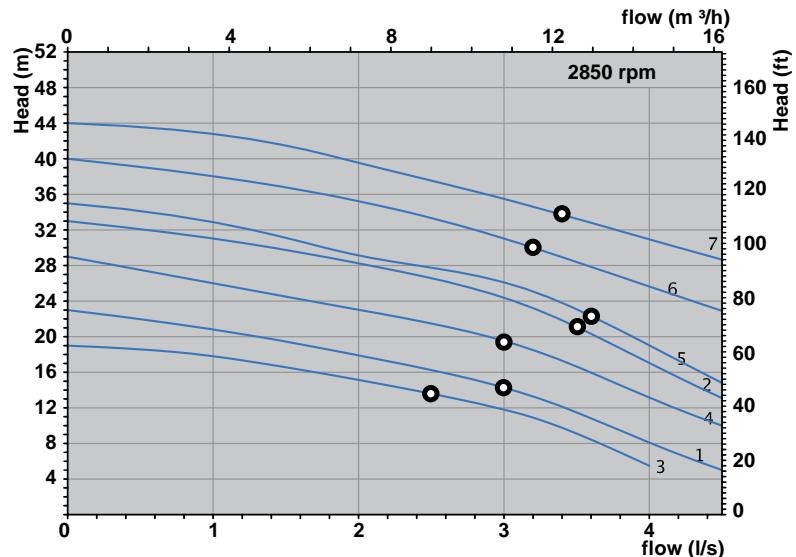
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS										PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO							
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	\varnothing mm	V	KG	I/sec	0	1	2	3	4	5
		m³/h	0	4	7	10.8					m³/h	0	4	7	10.8	14.4	18
1	GT - CV09 - CT-4	1.2	0.9	400	2.5	1450	1"1/2	7	40N	39	H m	12.2	10.1	8.2	6.4	5	3.5

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



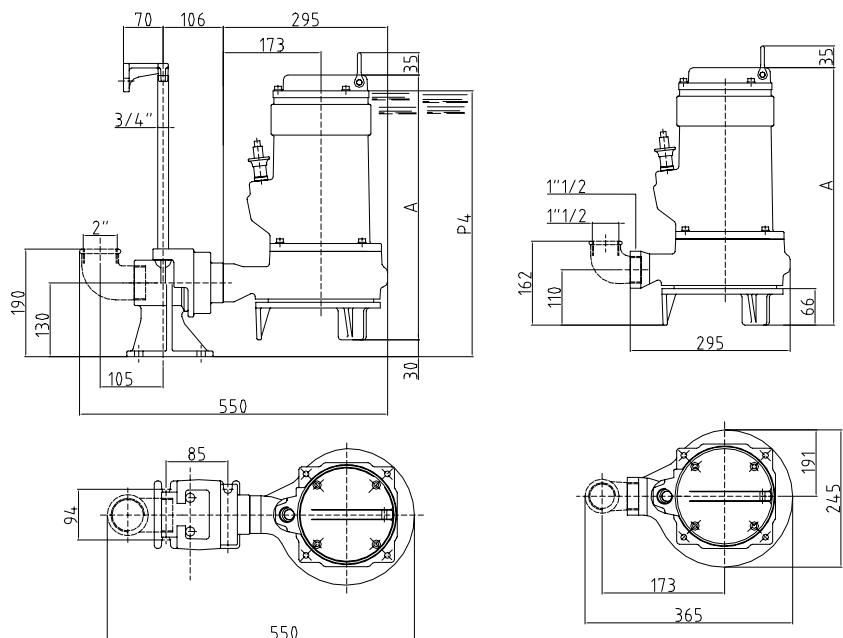
GT

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
COURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS									PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO								
Nr	Modello - Type	P1 kW	P2 kW	Volt	µF	Amp	Giri rpm	DN	Ø mm	l/sec	0	1	2	3	4	4.5	5
		m³/h	0	4	7	10.8	14.4	16.2	18								
1	GT - CV16 - CMs	2	1.6	230	40	10	2850	1"1/2	7	23	20.7	18	14	8	5		
2	GT - CV23 - CMs	2.9	2.3	230	50	14	2850	1"1/2	7	32.9	31.8	28	24.4	16.7	13		
3	GT - CV11 - CT	1.5	1.1	400		3	2850	1"1/2	7	19	17.8	15	12	6			
4	GT - CV18 - CT	2.2	1.85	400		4.5	2850	1"1/2	7	29	26	23	19.1	13	10		
5	GT - CV26 - CT	3.3	2.6	400		5.8	2850	1"1/2	7	35	33	29	26.1	18.9	15		
6	GT - CV36 - CT	4	3.6	400		8	2850	1"1/2	7	40	38	35.2	31	25.8	22.8		
7	GT - CV40 - CT	5	4	400		10	2850	1"1/2	7	44	42.8	39.5	35.5	31	28.8		

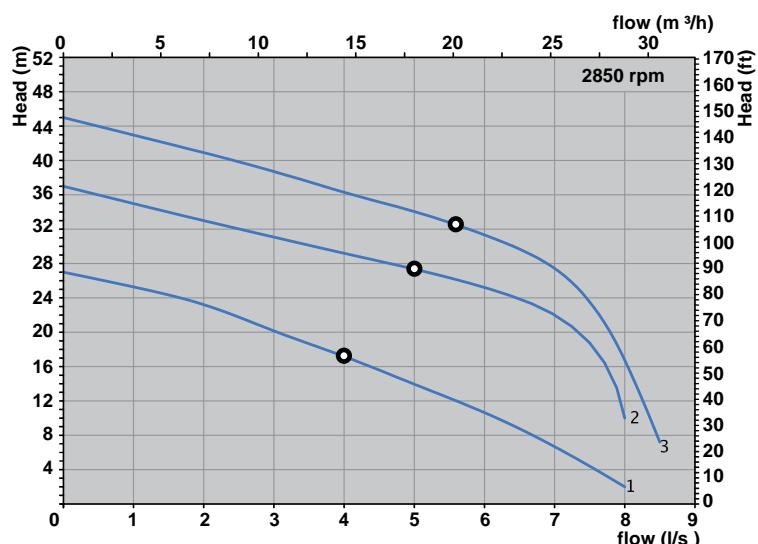
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO					
Nr	Modello - Type	A max	P4	V	KG
1	GT - CV16 - CMs	455	470	40N	44
2	GT - CV23 - CMs	470	485	40N	54
3	GT - CV11 - CT	420	435	40N	38
4	GT - CV18 - CT	420	435	40N	39
5	GT - CV26 - CT	455	470	40N	44
6	GT - CV36 - CT	470	485	40N	54
7	GT - CV40 - CT	470	485	40N	55

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS





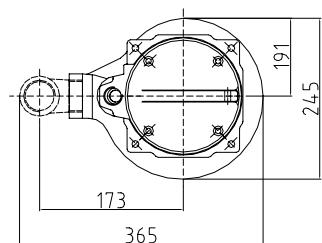
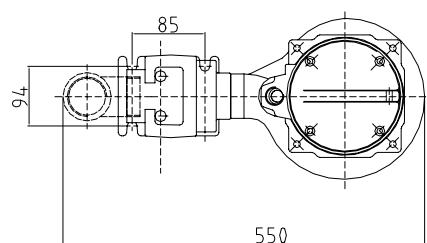
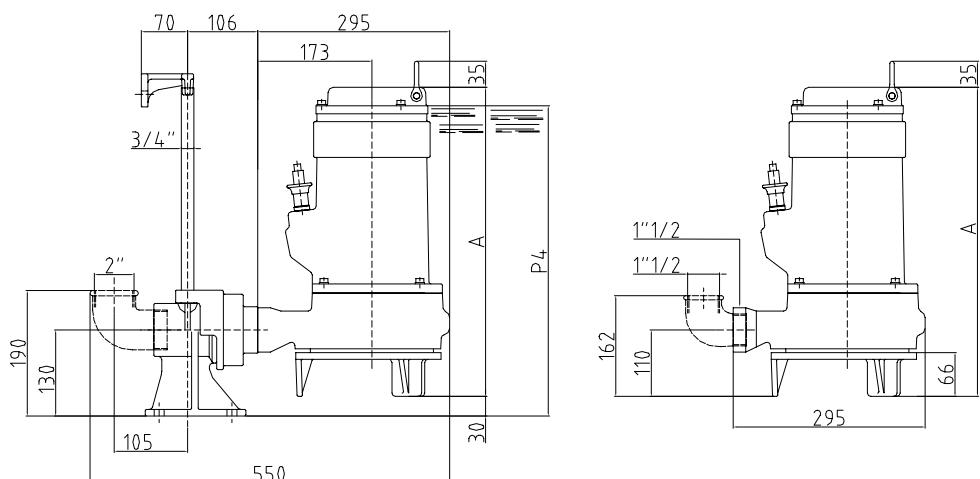
GT

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

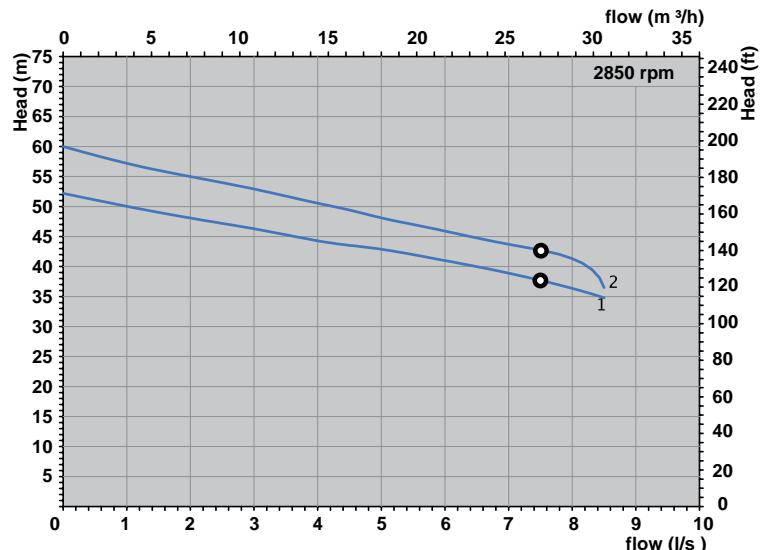
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec	0	1	2	3	4	4.5	5	6	7	8	8.5
									m³/h	0	4	7	10.8	14.4	16.2	18	21.6	25.2	28.8	30.6
1	GT - CV26 - CT-HF	3	2.6	400	5.5	2850	1"1/2	7	H m	27	25.3	23.6	20	17.3	15.8	13.9	10.8	6.9	2	30.6
2	GT - CV40 - CT-HF	4.5	4	400	8	2850	1"1/2	7	H m	37	35	33	31	29.2	28.1	27.5	25	21.5	10	
3	GT - CV55 - CD-HF	6	5.5	400	12	2850	1"1/2	7	H m	45	42.8	41.1	39	36.2	34	34	31	27.2	16.5	6.7

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO		
Nr	Modello - Type	A max
1	GT - CV26 - CT-HF	455
2	GT - CV40 - CT-HF	470
3	GT - CV55 - CD-HF	470
	V	KG
1	40N	39
2	50N	54
3	50N	55

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS

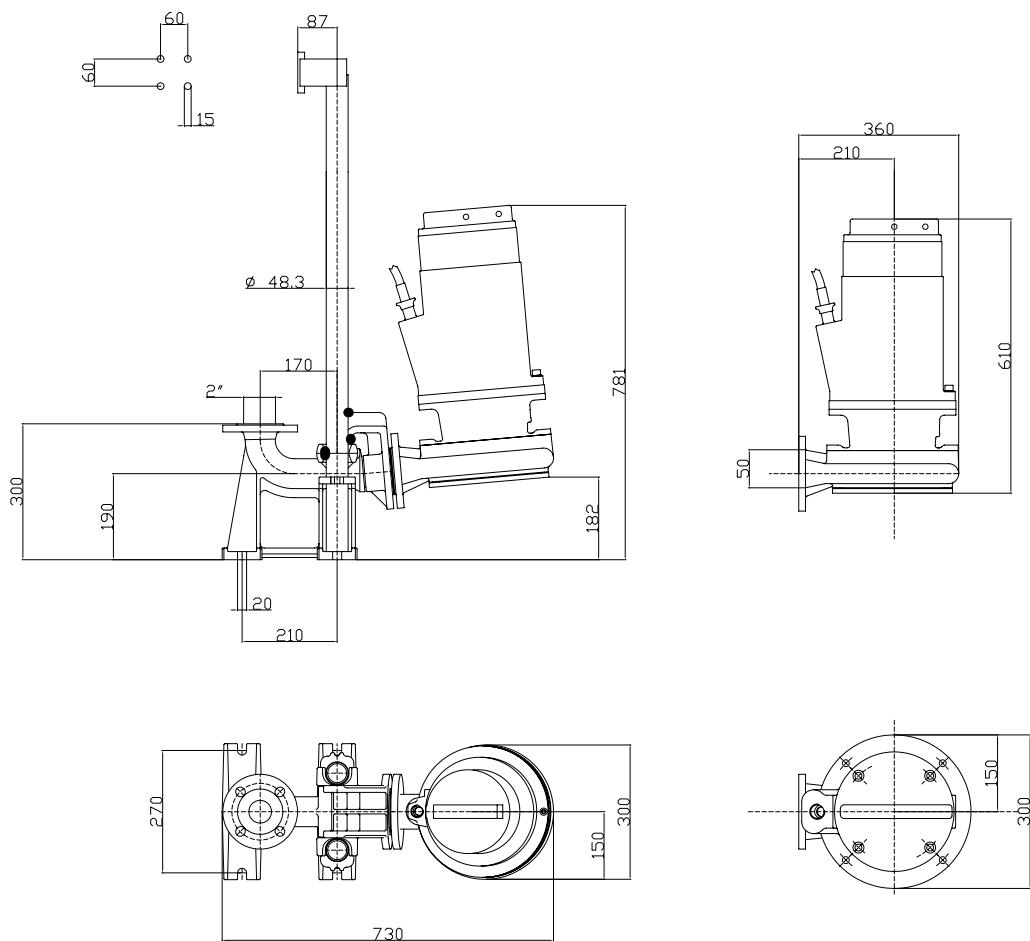


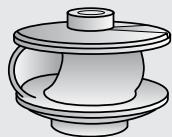
GT

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAISPERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ
PERFORMANCES - RENDIMENTO - EXECUÇÃO

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	V	KG	l/sec	0	1	2	3	4	4.5	5	6	7	8	8.5
		m³/h	0	4	7	10.8	14.4	16.2	18	21.6	25.2	28.8	30.6									
1	GT - CV72 - DD-HF	8	7.2	400	15	2850	50	7	50K	110	H	52.2	50	48	46.4	44.2	43.5	43	41	39	36.5	34.8
2	GT - CV95 - DD-HF	11	9.5	400	19	2850	50	7	50K	110	m	60	57	55	53	50.5	49.4	48	46	43.5	41.3	36.2

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS





M Series

Submersible pumps

Single-channel impeller

M Series

1.85 - 5.5 kW

Discharge size

DN 80

Elettropompe sommergibili

Girante Monocanale

Serie M

1.85 - 5.5 kW

Mandata

DN 80

Погружные электронасосы

С одноканальным рабочим колесом

Серия М

1.85 - 5.5 kW

выходное отверстие

DN 80

Electropompes submersibles

Roue monocanal

Série M

1.85 - 5.5 kW

Diam. refoulement

DN 80

Bombas sumergibles

Turbina monocanal

Modelo M

1.85 - 5.5 kW

Diámetro impulsión

DN 80

Bombas eléctricas submersíveis

Giratória mono-canal

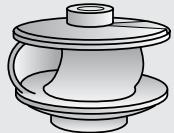
Série M

1.85 - 5.5 kW

Diâmetro boca

DN 80





M Series

Technical features

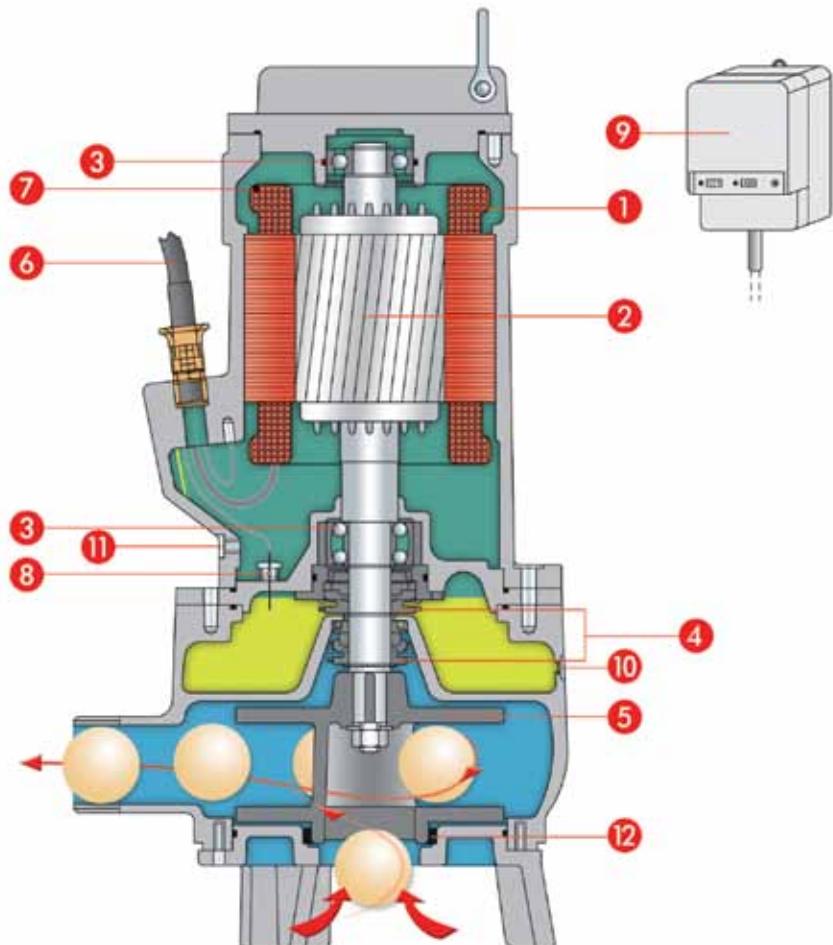
Caratteristiche costruttive

Технические характеристики

Caractéristiques de construction

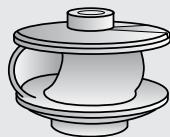
Características de construcción

Características de construção



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 2850 rpm. Voltage: three-phase 3x380/415V-50 Hz.
Different voltage and frequency on request.
2. Shaft in stainless steel AISI 420
3. Pre-lubricated long-life bearings
4. Double mechanical seal in oil chamber
Water side: silicon carbide/silicon carbide
Motor side: graphite/alumina
5. Single-channel impeller
6. Cable H07RNF
7. Thermal protection embedded in winding (optional)
8. Oil chamber probe (optional)
9. AET- electrical gear
10. Oil inspection plug
11. Air plug hole for the motor water tightness control
12. Bronze wear ring

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP68
Giri: 2850 al min⁻¹
Voltaggio: trifase 3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta
2. Albero in acciaio AISI 420
3. Cuscinetti prelubrificati lunga vita
4. Doppia tenuta meccanica in camera d'olio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: grafite/allumina
5. Girante monocanale
6. Cavo H07RNF
7. Protezione termica incorporata nell'avvolgimento (optional)
8. Sonda camera olio
9. AET-quadro elettrico
10. Ispezione olio
11. Controllo tenuta stagna motore
12. Anello usura in bronzo



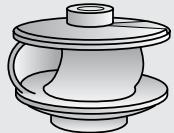
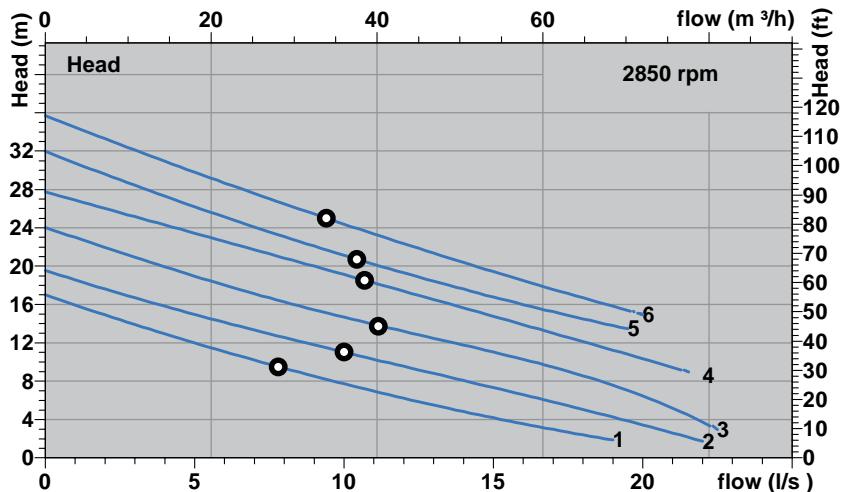
1. Герметичный полностью погружной двигатель.
Класс изоляции Н. Класс защиты IP68.
Скорость вращения: 2850 об./мин.
Напряжение: трехфазное 3x380/415 В 50 Гц.
Другие напряжения и частота под заказ.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники со смазкой
4. Двойное мех. уплотнение в масляной камере
С гидравлической стороны: карбид кремния/ карбид кремния
Со стороны двигателя: графит/оксид алюминия
5. Одноканальное рабочее колесо
6. Кабель H07RNF
7. Теплозащита, встроенная в обмотку (опция)
8. Датчик в масляной камере (опция)
9. Пульт управления АЕТ
10. Окошко для контроля масла
11. Контроль герметичности двигателя
12. Расходное кольцо из бронзы

1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 2850 rpm/min⁻¹
Voltaje: trifásico 3 x 380/415V 50 Hz
Otros voltajes y frecuencias a demanda.
2. Eje Acero inoxidable AISI 420
3. Cojinetes sobredimensionados lubrificados indefinidamente
4. Doble cierre mecánico en cámara de aceite
Carburo de silicio/Carburo de silicio en el lado agua
Grafito/Acero templado en el lado motor
5. Impulsor monocanal
6. Cable H07RNF
7. Protector térmico en el bobinado (opcional)
8. Detector de infiltraciones en la cámara de aceite
9. AET cCuadros eléctricos
10. Inspección aceite
11. Control de motor estanco
12. Anillo de desgaste de bronce

1. Moteur entièrement submergé étanche à l'eau
Classe d'isolation H. indice de protection IP 68
Vitesse de rotation: 2850 tr/mn
Bobinage tri: 3x380/415V Fréquence: 50 Hz
Autres tensions et fréquences sur demande.
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile
Garniture inférieure: Carbure de silicium/Carbure de silicium
Garniture supérieure: graphite/alumine
5. Roue monocanal
6. Cable H07RNF
7. Protection termique intégré dans le bobinage (en option)
8. DéTECTEUR d'infiltration dans la chambre à huile
9. Coffret électrique de commande AET
10. Inspection de l'huile
11. Contrôle moteur étanche à l'eau
12. Anneau usure en bronze

1. Motor totalmente submerso estanco
Isolamentos em classe H. Grau de proteção IP 68
rpm: 2850
Tensão: trifásica 3x380/415V-50
Outras tensões e frequências a pedido.
2. Eixo em aço AISI 420
3. Chumaceiras sobredimensionados isentas de manutenção
4. Duplo contenção na câmara óleo
Contenção inferior: carboneto de silício
Contenção superior: grafito/allumina
5. Giratória mono-canal
6. Cabo H07RNF
7. Proteção térmica nas bobinas (opcional)
8. Detector da infiltração na câmara óleo (opcional)
9. AET painel elétrico
10. Inspeção de óleo
11. Controle motor estanco
12. Anel de desgaste de bronze

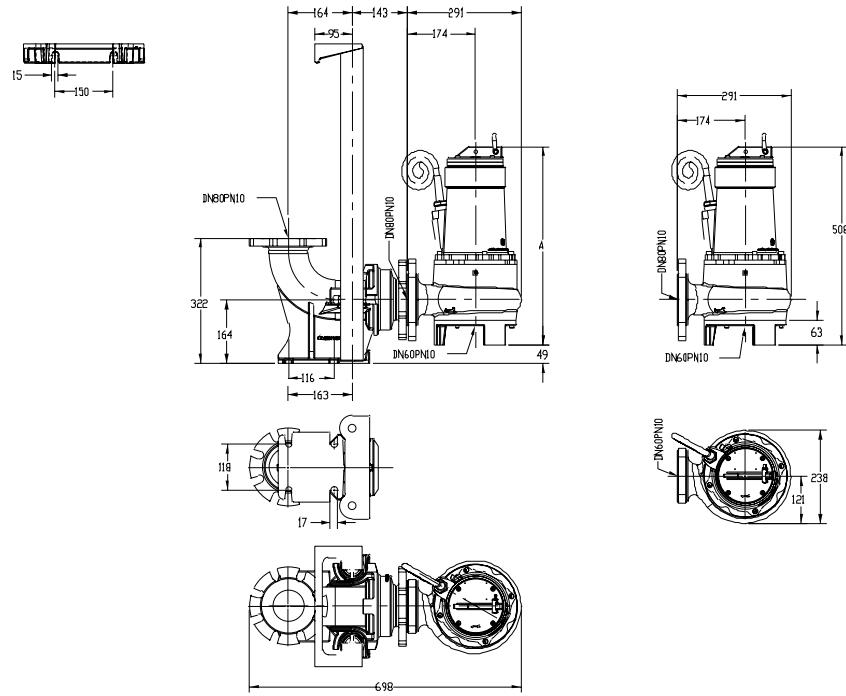
MC

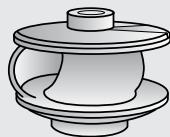
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO										
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec	0	3	6	9	12	15	18	21	22
1	MC - CC18 - FT	2.2	1.85	400	4	2850	80	50		17	14	11	8.4	6.3	4.3	2.4		
2	MC - CC22 - FT	2.6	2.2	400	5.2	2850	80	50		19.5	16.7	14.2	11.7	9.5	7.3	5.2	2.6	1.7
3	MC - CC30 - FT	3.7	3	400	6.8	2850	80	50		24	20.8	18	15.4	13.2	11.1	8.6	5.1	3.6
4	MC - CC40 - FT	5	4	400	8.6	2850	80	50		27.7	25.3	22.5	20	17.3	14.9	12.1	9	
5	MC - CC50 - FT	6	5	400	9.8	2850	80	50		32	28.4	25	22	19.4	16.9	14.3		
6	MC - CC55 - FD	6.2	5.5	400	10	2850	80	50		36	31.9	28.3	25.5	22.5	19.6	17		

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO				
Nr	Modello - Type	A max	V	KG
1	MC - CC18 - FT	508	80N	42
2	MC - CC22 - FT	508	80N	44
3	MC - CC30 - FT	515	80N	45
4	MC - CC40 - FT	515	80N	49
5	MC - CC50 - FT	564	80N	51
6	MC - CC55 - FD	564	80N	57

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCORBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS





M Series

Submersible pumps

Single-channel impeller

M Series

1.25 - 34 kW

Discharge size

DN 80 - 100 - 150

Elettropompe sommergibili

Girante Monocanale

Serie M

1.25 - 34 kW

Mandata

DN 80 - 100 - 150

Погружные электронасосы

С одноканальным рабочим колесом

Серия М

1.25 - 34 kW

выходное отверстие

DN 80 - 100 - 150

Electropompes submersibles

Roue monocanal

Série M

1.25 - 34 kW

Diam. refoulement

DN 80 - 100 - 150

Bombas sumergibles

Turbina monocanal

Modelo M

1.25 - 34 kW

Diámetro impulsión

DN 80 - 100 - 150

Bombas eléctricas submersíveis

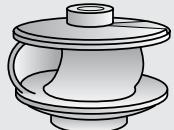
Giratória mono-canal

Série M

1.25 - 34 kW

Diâmetro boca

DN 80 - 100 - 150

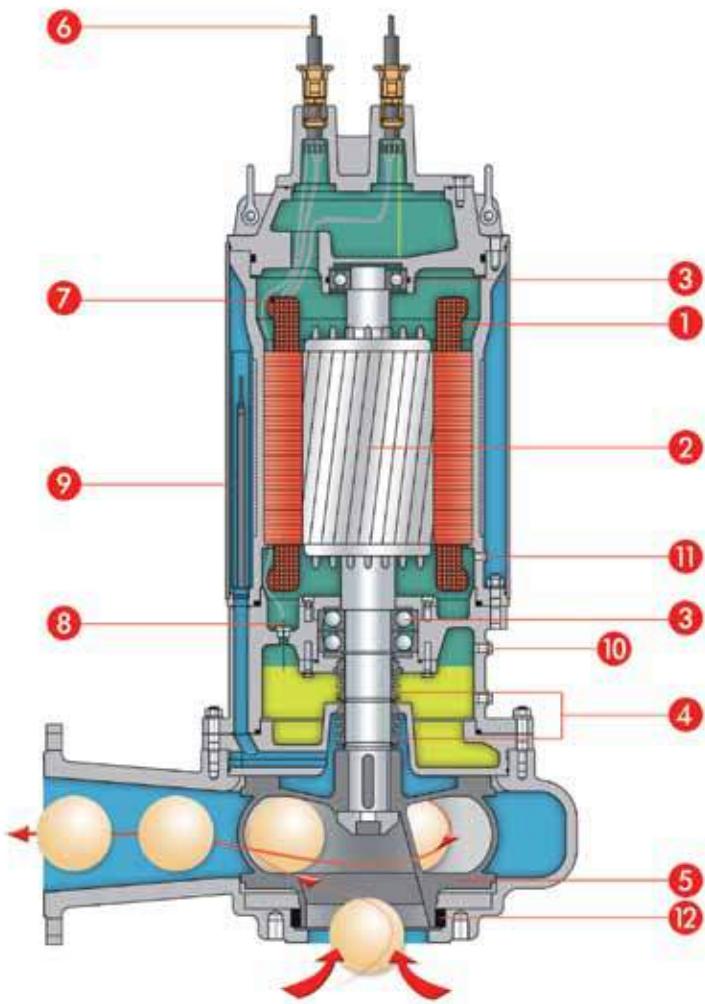


M Series

Caratteristiche costruttive
Technical features

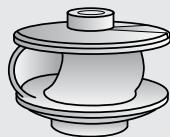
Технические характеристики
Caractéristiques de construction

Características de construcción
Características de construção



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 960 - 1450 - 2850 rpm. Voltage: three-phase 3x380/415V-50 Hz
Different voltage and frequency on request.
2. Shaft in stainless steel AISI 420
3. Pre-lubricated long-life bearings
4. Double mechanical seal in oil chamber
Water side: silicon carbide/silicon carbide
Motor side: silicon carbide/silicon carbide
5. Closed single-channel impeller
6. Cable H07RNF
7. Thermal protection embedded in winding (optional)
8. Oil chamber probe
9. Cooling jacket (optional)
10. Oil inspection plug
11. Air plug Hole for the motor water tightness control
12. Bronze wear ring

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP68
Giri: 960 - 1450 - 2850 al min⁻¹
Voltaggio: trifase 3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta
2. Albero in acciaio AISI 420
3. Cuscinetti prelubrificati lunga vita
4. Doppia tenuta meccanica in camera d'olio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: carburo di silicio/carburo di silicio
5. Girante monocanale chiusa
6. Cavo H07RNF
7. Protezione termica incorporata nell'avvolgimento (optional)
8. Sonda camera olio
9. Camicia di raffreddamento
10. Ispezione olio
11. Controllo tenuta stagna motore
12. Anello usura in bronzo



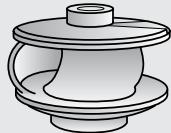
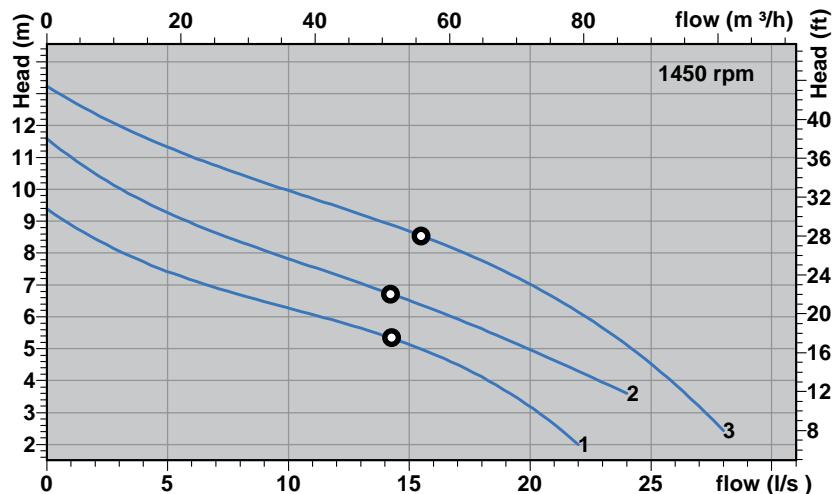
1. Герметичный полностью погружной двигатель.
Класс изоляции Н. Класс защиты IP68.
Скорость вращения: 960 - 1450 - 2850 об./мин.
Напряжение: трехфазное 3x380/415 В 50 Гц.
Другие напряжения и частота под заказ.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники со смазкой
4. Двойное мех. уплотнение в масляной камере
С гидравлической стороны: карбид кремния/ карбид кремния
Со стороны двигателя: карбид кремния/ карбид кремния
5. Закрытое одноканальное рабочее колесо
6. Кабель H07RNF
7. Теплозащита в обмотке (опция)
8. Датчик в масляной камере
9. Охлаждающая рубашка (опция)
10. Окошко для контроля масла
11. Контроль герметичности двигателя
12. Расходное кольцо из бронзы

1. Moteur entièrement submersé étanche à l'eau
Classe d'isolation H. indice de protection IP 68
Vitesse de rotation: 960 - 1450 - 2850 tr/mn
Bobinage tri: 3x380/415V-50 Hz Fréquence: 50 Hz
Autres tensions et fréquences sur demande.
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile
Garniture inférieur: Carbure de silicium/Carbure de silicium
Garniture supérieure: Carbure de silicium/Carbure de silicium
5. Roue monocanal fermé
6. Cable H07RNF
7. Protection termique intégré dans le bobinage (en option)
8. DéTECTeur d'infiltration dans la chambre à huile
9. Chemise de refroidissement
10. Inspection de l'huile
11. Contrôle moteur étanche à l'eau
12. Anneau usure en bronze

-
1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 960 - 1450 - 2850 rpm/min⁻¹
Voltaje: trifásico 3x380/415V-50 Hz -50 Hz
Otros voltajes y frecuencias a demanda.
 2. Eje Acero inoxidable AISI 420
 3. Cojinetes sobredimensionados lubrificados indefinidamente
 4. Doble cierre mecánico en cámara de aceite
Carburo de silicio/Carburo de silicio en el lado agua.
Carburo de silicio/Carburo de silicio en el lado motor
 5. Impulsor monocanal cerrado
 6. Cable H07RNF
 7. Protector térmico en el bobinado (opcional)
 8. Detector de infiltraciones en la cámara de aceite
 9. Camisa de refrigeración (opcional)
 10. Inspección aceite
 11. Control de motor estanco
 12. Anillo de desgaste de bronce

-
1. Motor totalmente submerso estanco
Isolamentos em classe H. Grau de proteção IP 68
rpm: 960 - 1450 - 2850
Tensão: trifásica 3x380/415V-50 Hz -50 Hz
Outras tensões e frequências a pedido.
 2. Eixo em aço AISI 420
 3. Chumaceiras sobredimensionados isentes de manutenção
 4. Duplo contenção na câmara óleo
Contenção inferior: carboneto de silício
Contenção superior: carboneto de silício
 5. Giratória mono-canál fechada
 6. Cabo H07RNF
 7. Proteção térmica nas bobinas (opcional)
 8. Detector da infiltração na câmara óleo
 9. Camisa de resfriamento
 10. Inspeção de óleo
 11. Controle motor estanque
 12. Anel de desgaste de bronze

MC - 4

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	\varnothing	V	KG	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ							
		kW	kW			rpm					l/sec	0	5	10	15	20	25	30
1	MC - CC12 - FT - 4	1.5	1.25	400	3.2	1450	80	73	80N	60	m³/h	9.4	7.4	6.3	5.1	3.5		
2	MC - CC16 - FT - 4	1.9	1.6	400	4	1450	80	73	80N	62	H	11.6	9.3	7.8	6.5	4.9		
3	MC - CC22 - FT - 4	2.9	2.2	400	4.8	1450	80	73	80N	63	m	13.2	11.3	9.8	8.5	6.7	4.6	

DIMENSION DRAWINGS

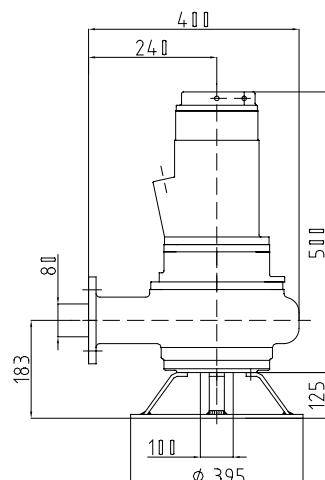
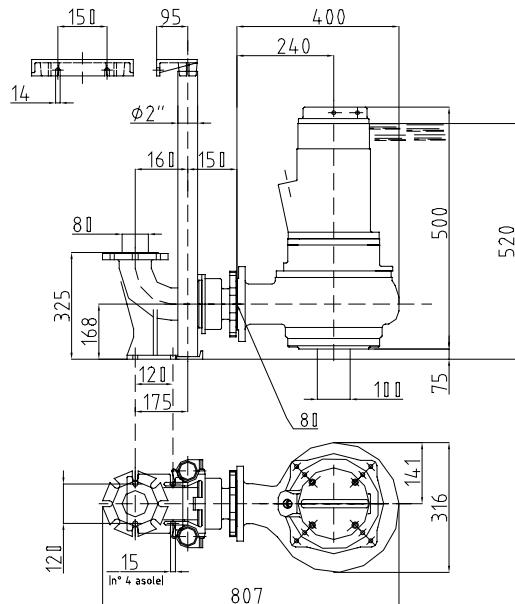
DIMENSIONI D'INGOMBRO

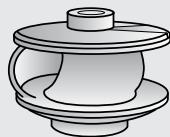
ГАБАРИТНЫЕ ЧЕРТЕЖИ

DIMENSIONS D'ENCOMBREMENT

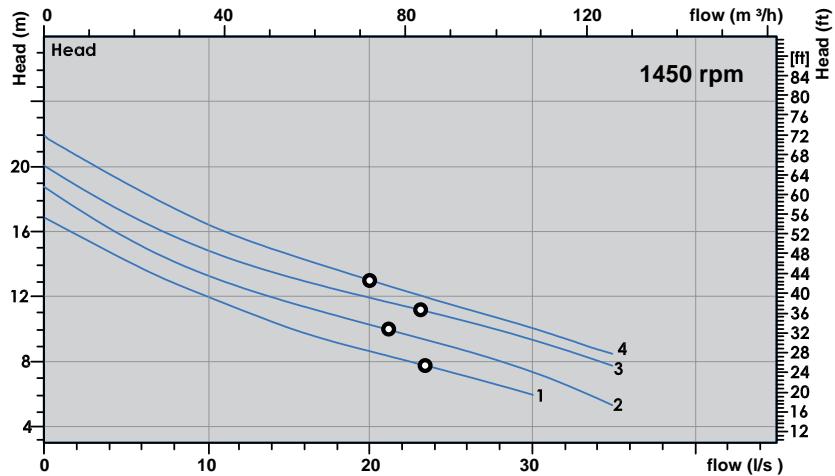
DIMENSIONES TOTALES

DIMENSÕES GLOBAIS





MC - 4

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
COURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO

Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	\emptyset mm	l/sec	0	5	10	15	20	25	30	35	40	45
		kW	kW	V	A	rpm			m³/h	m	m	m	m	m	m	m	m	m	m
1	MC - CC35 - FT - 4	3.8	3.5	400	6.6	1450	80	80		17	14.2	11.5	10	8.4	7	5.5			
2	MC - CC42 - FT - 4	5	4.2	400	9.9	1450	80	80		18.9	15.4	13.7	11.7	10.4	9	7.3	5.2		
3	MC - CC50 - FT - 4	6	5	400	11	1450	80	80		20.2	16.8	14.7	13.3	12.1	10.7	9.1	7.3		
4	MC - CC65 - FD - 4	7.6	6.5	400	13	1450	80	80		22	19.5	16.5	14.5	12.8	11.5	10.2	8.5		

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A max	B	B1	C	C1	D	E	F2	P2	P4	V1	V2	T	U	DN1	V	KG
1	MC - CC35 - FT - 4	587	465	283	366	167	872	45	239	483	592	280	240	550	650	80	80N	66
2	MC - CC42 - FT - 4	587	465	283	366	167	872	45	239	483	592	280	240	550	650	100	80N	102
3	MC - CC50 - FT - 4	636	465	283	366	167	872	45	239	483	641	280	240	550	650	100	80N	105
4	MC - CC65 - FD - 4	636	465	283	366	167	872	45	239	483	641	280	240	550	650	100	80N	108

DIMENSION DRAWINGS

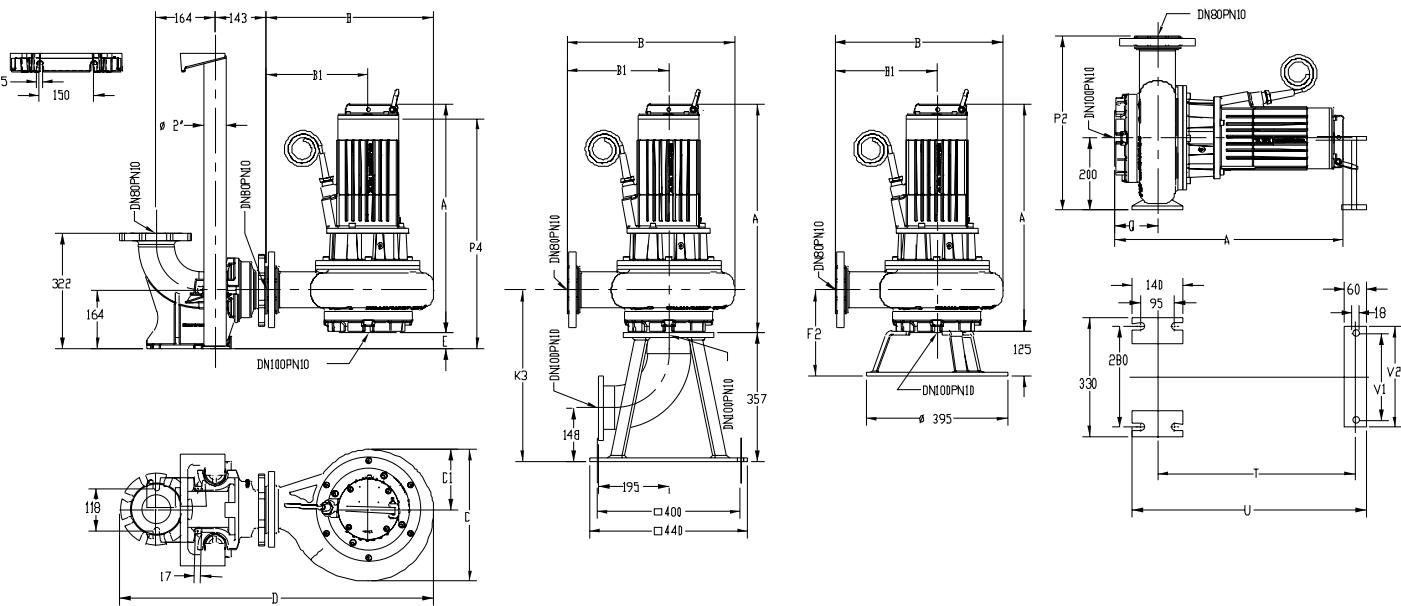
DIMENSIONI D'INGOMBRO

ГАБАРИТНЫЕ ЧЕРТЕЖИ

DIMENSIONS D'ENCOMBREMENT

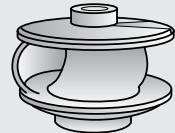
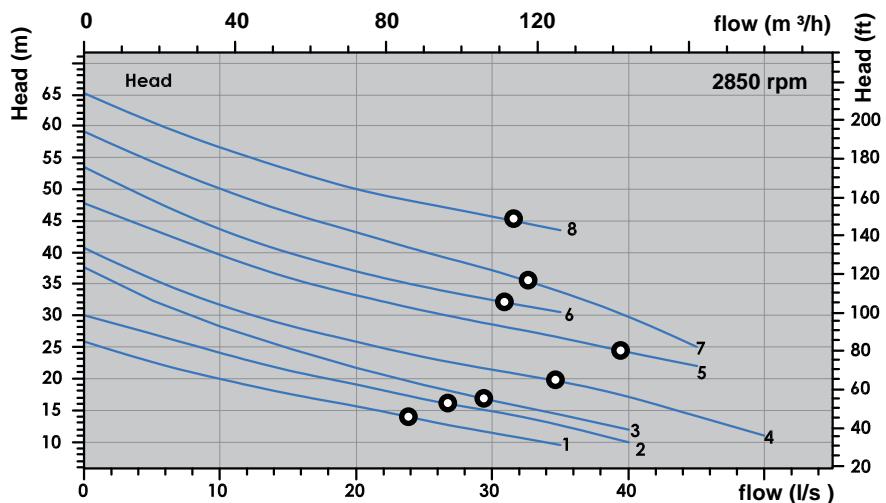
DIMENSIONES TOTALES

DIMENSÕES GLOBAIS



* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

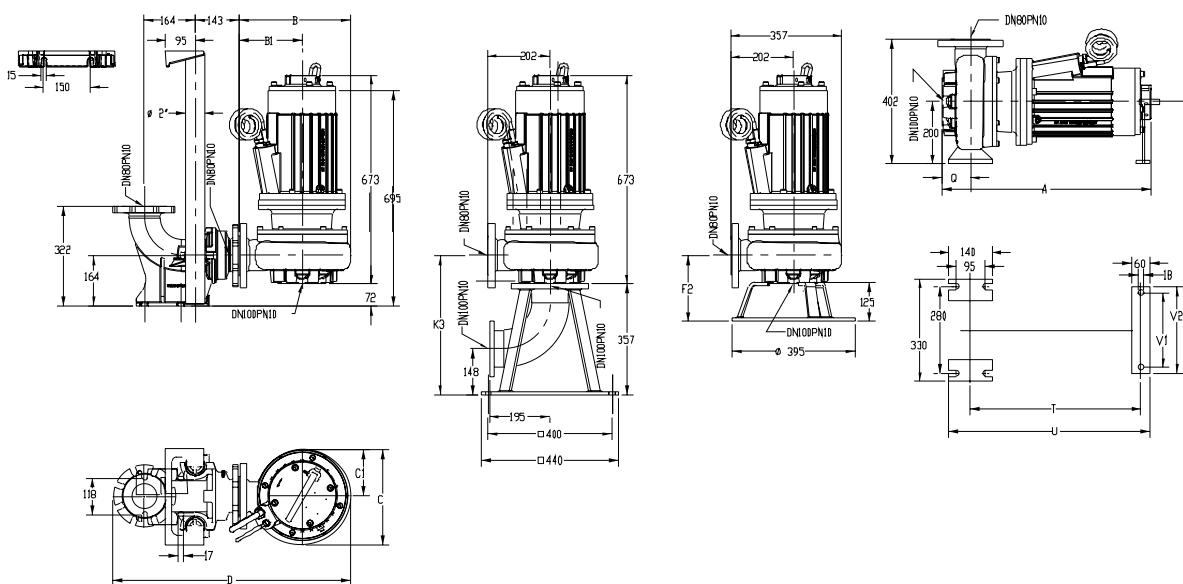
MC

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

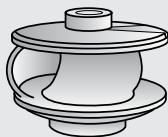
Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	Ø mm	I/sec	0	5	10	15	20	25	30	35	40	45	50
		kW	kW	Volt	Amp	rpm			m³/h	0	18	36	54	72	90	108	126	144	162	180
1	MC - CC90 - FD	10.5	9	400	18	2850	80	80	H	25.8	22.6	20	17.5	15.4	13.5	11.5	9.4			
2	MC - CC110 - FD-R	12	11	400	23	2850				29.8	26.7	23.8	21.6	19.5	17.6	15.7	13.7	10		
3	MC - CC110 - FD	13	11	400	23	2850				37.5	32.3	27.8	24.3	21.3	19	16.7	14.3	12		
4	MC - CC150 - FD	17	15	400	30	2850				40.2	35.5	31.4	28	25.2	23	21.2	19.5	17.2	14	11
5	MC - CC190 - FD	22	19	400	37	2850				47.9	43.5	39.7	36.3	33.3	30.7	28.4	26.3	24.2	22.1	
6	MC - CC220 - FD	25	22	400	42	2850				53.6	48	43.5	40	37.2	34.8	32.7	30.7			
7	MC - CC 240 - FD	27	24	400	46	2850				58.6	54.0	50.0	46.4	43.4	40.0	37.0	33.0	30.0	25.0	
8	MC - CC280 - FD	31	28	400	46	2850				65.2	58	53	49.8	47.5	45.6	43.3	39.8			

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

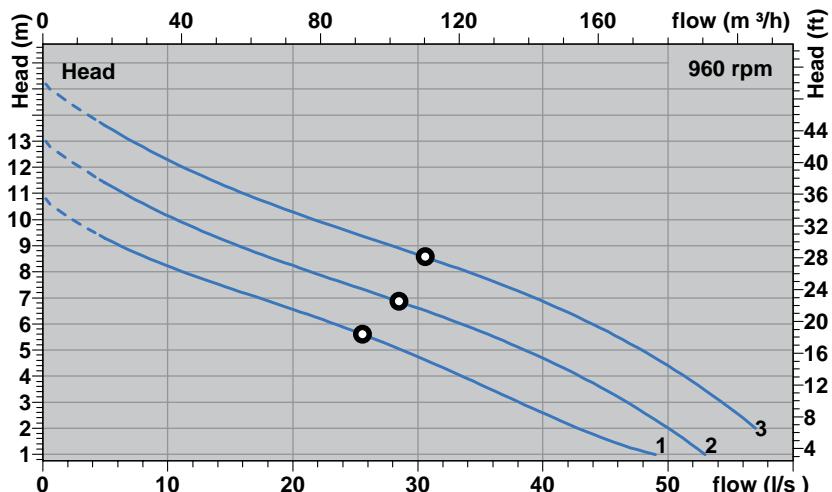
Nr	Modello - Type	A max	B	B1	C	C1	D	E	F2	P2	P4	K3	Q	T	U	V1	V2	V	KG
1	MC - CC90 - FD	673	357	202	307	149	764	72	213	402	695	450	92	548	648	260	320	80N	105
2	MC - CC110 - FD-R	673	537	202	307	149	764	72	213	402	695	450	92	548	648	260	320	80N	105
3	MC - CC110 - FD	673	357	202	307	149	764	72	213	402	695	450	92	548	648	260	320	80N	110
4	MC - CC150 - FD	749	357	202	307	149	764	72	213	402	771	450	92	796	896	310	370	80N	175
5	MC - CC190 - FD	749	357	202	307	149	764	72	213	402	771	450	92	796	896	310	370	80N	178
6	MC - CC220 - FD	749	357	202	307	149	764	72	213	402	771	450	92	796	896	310	370	80N	180
7	MC - CC 240 - FD	836	357	202	307	149	764	72	213	402	851	450	92	796	896	310	370	80N	201
8	MC - CC280 - FD	836	466	283	380	200	873	45	244	483	824	476	119	796	896	310	370	80N	205

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS

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MC - 6

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	V	KG	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO										
		l/sec	0	5	10	15	20	25	30	35	40	45	50	55	m³/h	0	18	36	54	72	90
																0	18	36	54	72	90
1	MC - CC30 - GT - 6	3.8	3	400	8	960	100	100	100N	148	H	10.8	9.2	8.2	7.3	6.6	5.7	4.8	3.7	2.7	1.6
2	MC - CC40 - GT - 6	5.1	4	400	10.7	960	100	100	100N	155	m	13	11.4	10.2	9	8.3	7.5	6.7	5.7	4.7	3.4
3	MC - CC50 - GT - 6	6	5	400	12	960	100	100	100N	158		15.2	13.6	12.2	11.1	10.2	9.5	8.6	7.6	6.7	5.7

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ
- DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACION - DIMENSÕES DE
INSTALAÇÃO

Nr	Modello - Type	A max	B	B1	C	C1	D	E	F2	P2	P4
1	MC - CC30 - GT - 6	742	584	333	480	214	1061	65	254	583	757
2	MC - CC40 - GT - 6	742	584	333	480	214	1061	65	254	583	757
3	MC - CC50 - GT - 6	742	584	333	480	214	1061	65	254	583	757

DIMENSION DRAWINGS

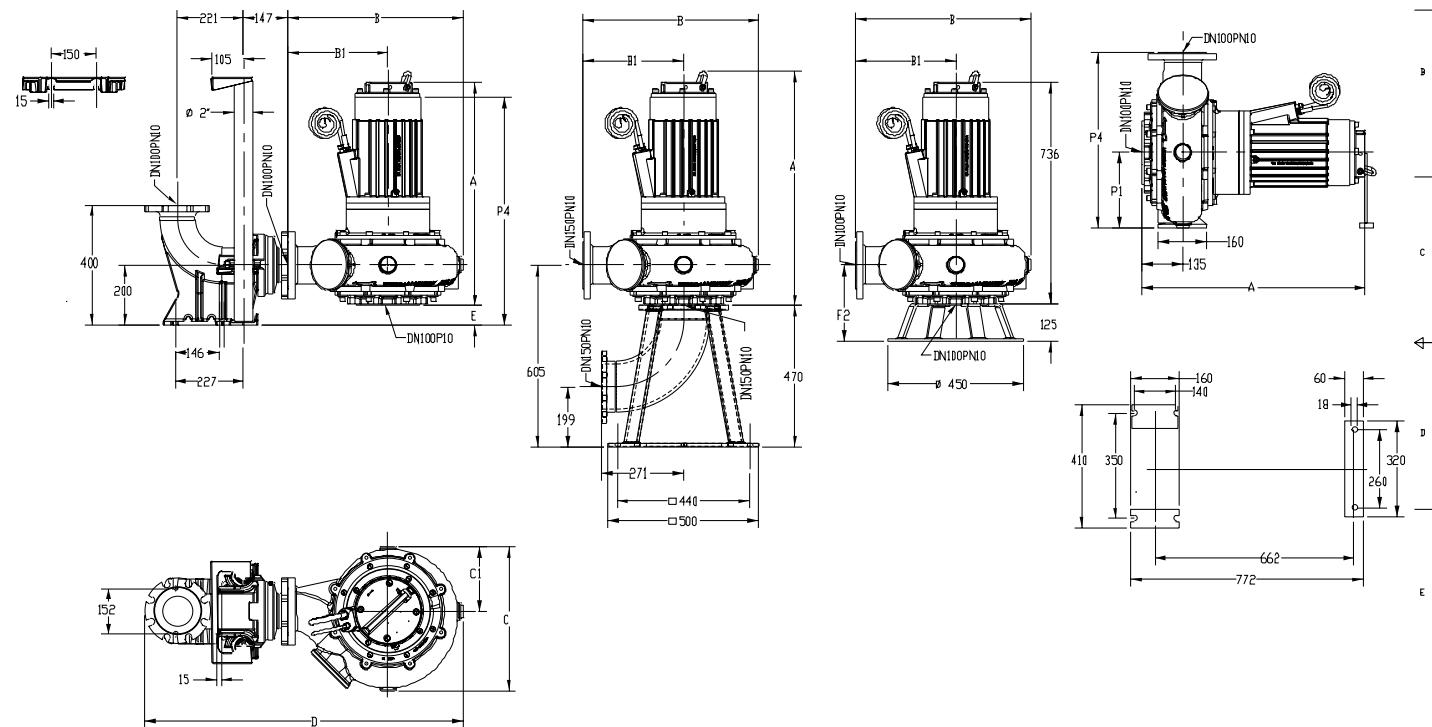
DIMENSIONI D'INGOMBRO

ГАБАРИТНЫЕ ЧЕРТЕЖИ

DIMENSIONS D'ENCOMBREMENT

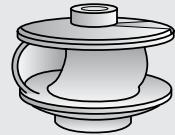
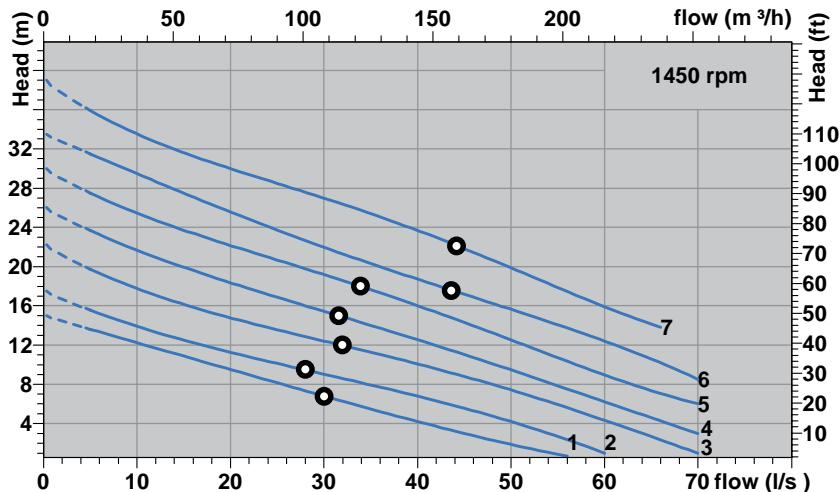
DIMENSIONES TOTALES

DIMENSÕES GLOBAIS



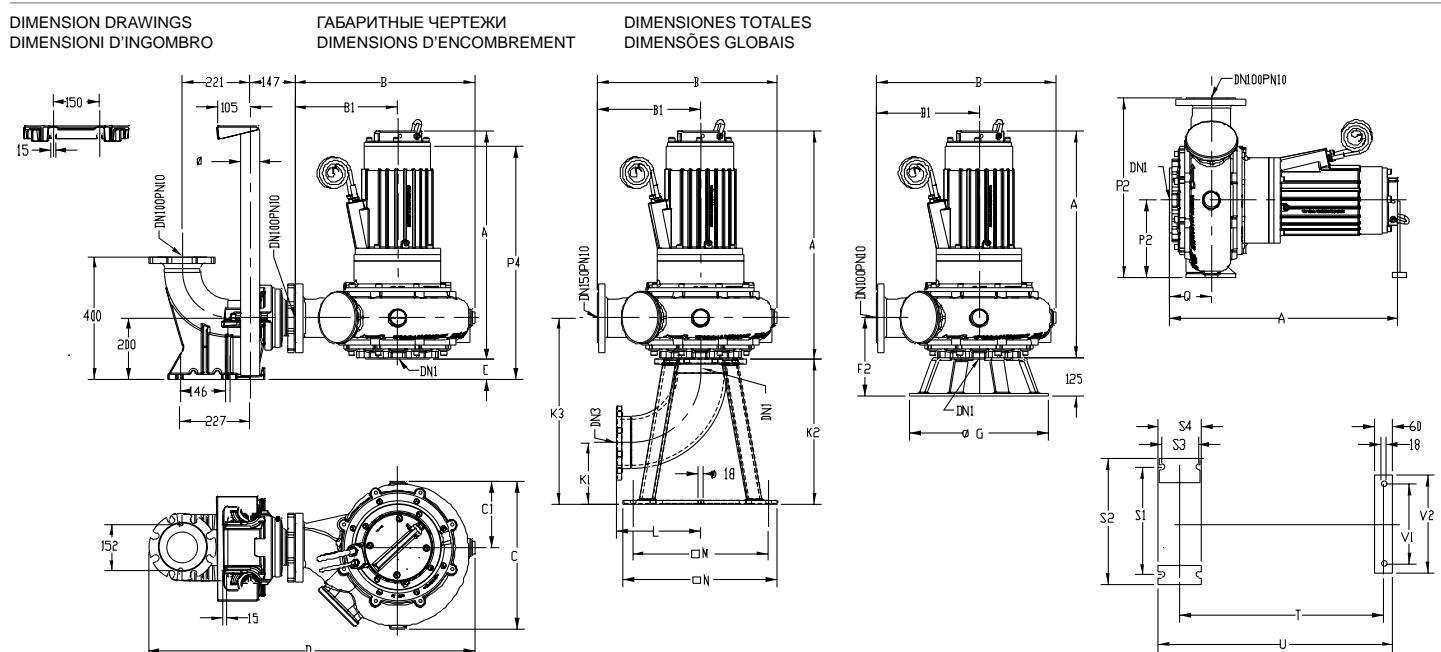
* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

MC - 4

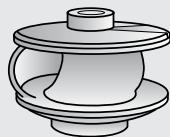
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO																	
Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	Ø																	
		kW	kW			rpm	mm	mm	l/sec	0	5	10	15	20	25	30	35	40	45	50	55	60	70		
1	MC - CC35 - GT - 4	4	3.5	400	7.5	1450	100	100	H m	15	13.3	12.5	11	9.3	8.3	7	5.5	4	3	2	1				
2	MC - CC50 - GT - 4	6	5	400	11	1450	100	100		18	15.6	14	12.7	11.2	10.2	9	8	7	5.5	4	2.6	1.2			
3	MC - CC75 - GD - 4	9	7.5	400	16	1450	100	100		22	20	17.8	16.1	14.8	13.5	12.5	11.4	10	8.8	7.3	6	4.4	1.2		
4	MC - CC90 - GD - 4	11	9	400	20	1450	100	100		26	23.5	21.5	20	18.5	17	15.6	14	12.6	11.1	9.5	8	6.5	3		
5	MC - CC120 - GD - 4	14	12	400	24	1450	100	100		30	27.5	25.5	23.8	22.3	20.9	19.4	17.7	16.1	14.4	12.4	10.6	9	6		
6	MC - CC140 - GD - 4	17	14	400	30	1450	100	100		33.5	31.3	29.4	27.5	25.6	23.9	22.2	20.5	18.8	17.2	15.8	14	12.3	9		
7	MC - CC175 - GD - 4	20	17.5	400	36	1450	100	100		39	35.8	33.4	31.5	30	28.8	27	25.5	23.7	21.9	20	18	16			

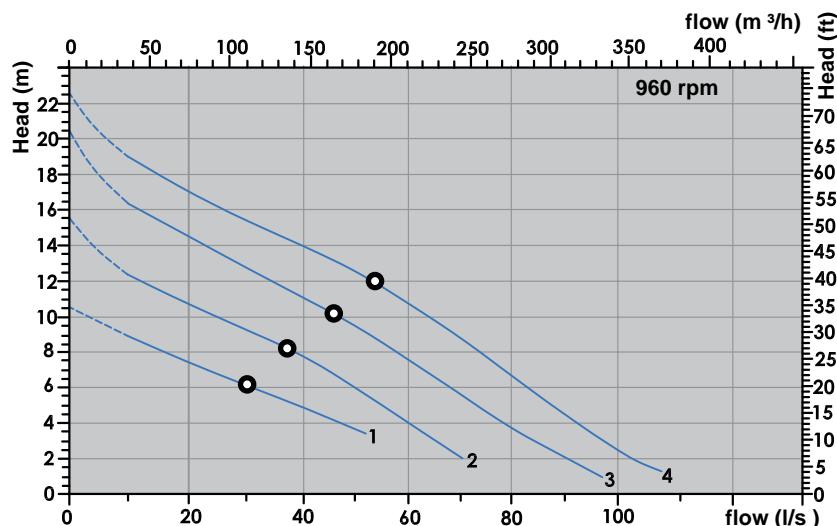
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO		A max	B	B1	C	C1	D	E	F2	P2	P4	P1	G	K1	K2	K3	L	M	N	S1	S2	S3	S4	T	U	V1	V2	DN1	DN3	KG	V
1	MC - CC35 - GT - 4	742	584	333	480	214	1061	65	254	584	757	200	395	151	345	468	195	380	440	280	330	95	140	651	751	260	320	100	100	104	100N
2	MC - CC50 - GT - 4	659	462	282	361	166	939	70	256	482	689	200	395	151	345	468	195	380	440	280	330	95	140	651	751	260	320	100	100	109	100N
3	MC - CC75 - GD - 4	675	462	282	361	166	939	70	256	482	703	250	450	199	470	605	271	440	500	350	410	120	160	902	1012	310	370	150	150	118	100N
4	MC - CC90 - GD - 4	742	584	333	480	214	1061	65	254	584	757	250	450	199	470	605	271	440	500	350	410	120	160	902	1012	310	370	150	150	184	100N
5	MC - CC120 - GD - 4	742	584	333	480	214	1061	65	254	584	757	250	450	199	470	605	271	440	500	350	410	120	160	902	1012	310	370	150	150	200	100N
6	MC - CC140 - GD - 4	818	584	333	480	214	1061	65	260	584	833	250	450	199	470	605	271	440	500	350	410	120	160	902	1012	310	370	150	150	212	100N
7	MC - CC175 - GD - 4	818	584	333	480	214	1061	65	260	584	833	250	450	199	470	605	271	440	500	350	410	120	160	902	1012	310	370	150	150	231	100N



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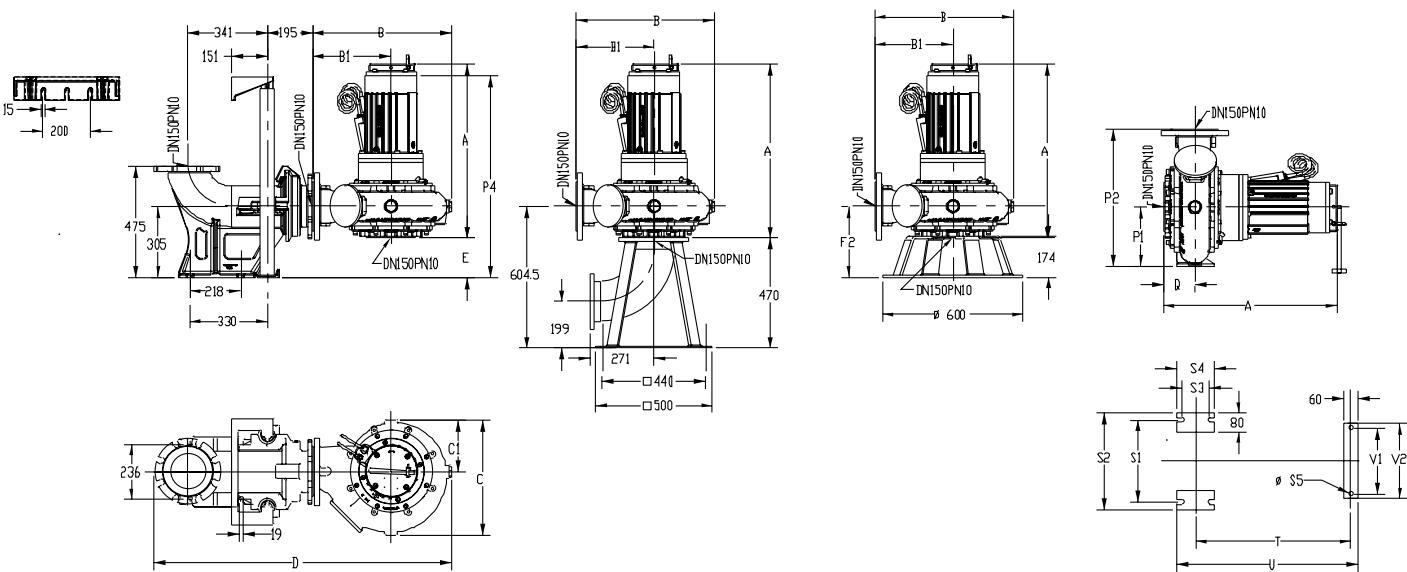


MC - 6

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

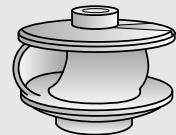
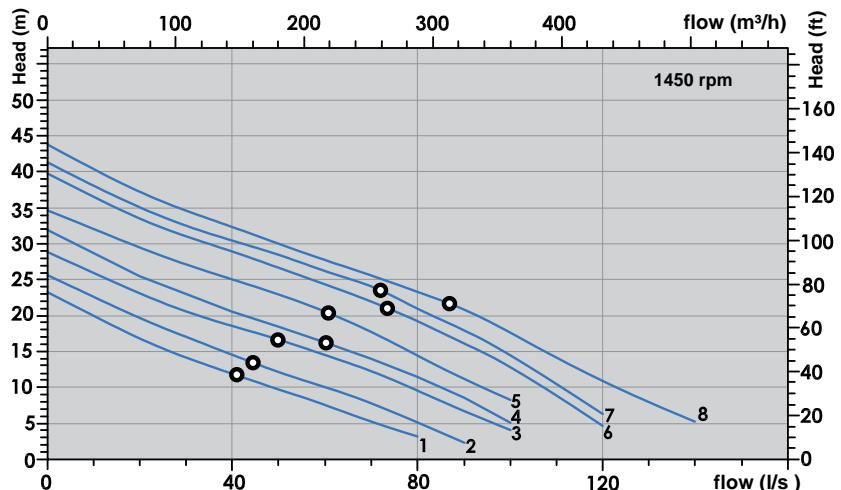
GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS									PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO												
Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	\varnothing mm	I/sec	0	10	20	30	40	50	60	70	80	90	100	120
		kW	kW	Volt	Amp	rpm			m³/h	36	72	108	144	180	216	252	288	324	360	432	
1	MC - CC40 - IT - 6	5.1	4	400	10.7	960	150	100	H	10.5	9	7.5	6.3	5.1	3.5						
2	MC - CC50 - IT - 6	6	5	400	12	960	150	100	m	15.5	12.3	10.5	9.2	7.7	5.9	4	2				
3	MC - CC75 - ID - 6	8.5	7.5	400	17	960	150	100		20.5	16.4	14.2	12.4	10.9	9.2	7.2	5.3	3.6	2.1		
4	MC - CC100 - ID - 6	11.6	10	400	22.5	960	150	100		22.6	19	16.8	15.1	13.6	12.3	10.4	8.3	6.1	4.2	2.2	

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO																				V1		V2		V	KG
Nr	Modello - Type	A max	B	B1	C	C1	D	E	F2	P2	P4	P1	Q	S1	S2	S3	S4	S5	T max	U max	V1	V2	V	KG	
1	MC - CC40 - IT - 6	742	592	333	490	220	1266	171	303	583	863	250	135	280	410	120	160	18	662	772	260	320	150N	158	
2	MC - CC50 - IT - 6	742	592	333	490	220	1266	171	303	583	863	250	135	280	410	120	160	18	662	772	260	320	150N	160	
3	MC - CC75 - ID - 6	808	691	420	549	244	1365	166	306	770	959	310	140	350	450	90	140	20	831	931	310	370	150N	265	
4	MC - CC100 - ID - 6	884	691	420	549	244	1365	166	306	770	994	310	140	350	450	90	140	20	831	931	310	370	150N	297	

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS

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MC - 4

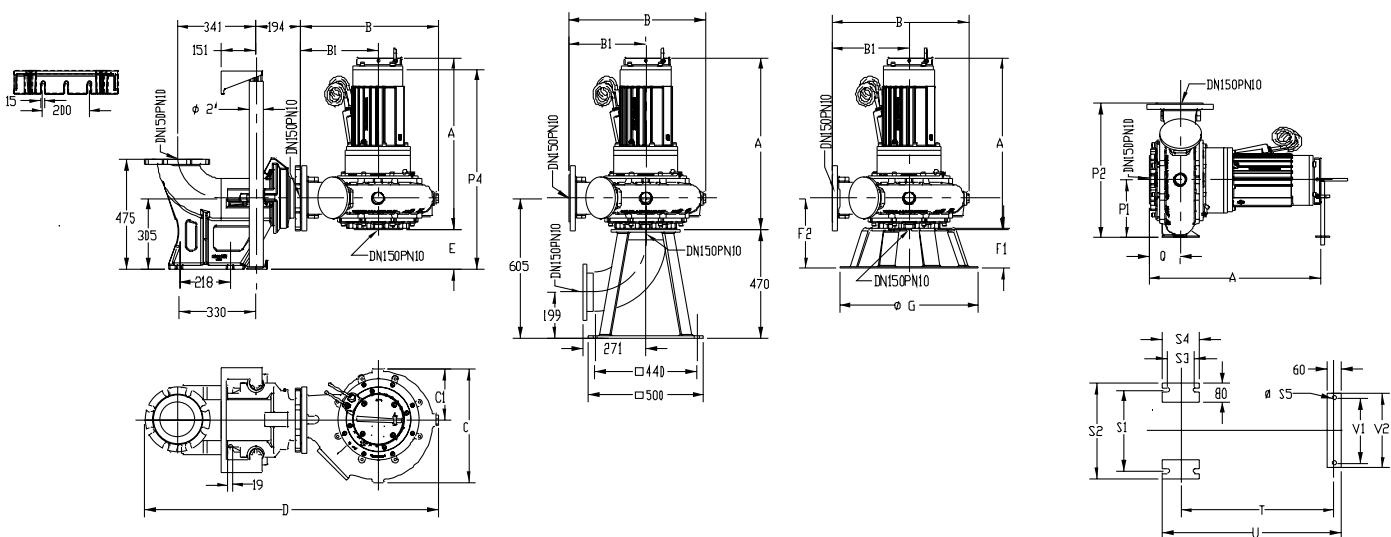
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
COURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	I/sec m³/h	0	10	20	30	40	50	60	70	80	90	100	120	140
		11	9	400	20	1450	150	100		23.1	19.8	16.8	14.1	12	9.9	7.7	5.3	3.1				
1	MC - CC90 - ID - 4	11	9	400	20	1450	150	100		25.8	22.7	19.6	17	14.6	12.3	10.1	7.9	5.2	2.1			
2	MC - CC120 - ID - 4	14	12	400	24	1450	150	100		28.9	26	22.9	20.5	18.5	16.7	14.6	12.2	9.6	6.8	3.9		
3	MC - CC140 - ID - 4	17	14	400	30	1450	150	100		32	28.8	25.6	22.9	20.6	18.4	16.3	14	11.5	8.6	5.1		
4	MC - CC175 - ID - 4	20	17.5	400	36	1450	150	100		34.7	32	29.6	27.1	24.9	22.9	20.6	17.8	14.5	11	8.2		
5	MC - CC220 - ID - 4	25	22	400	45	1450	150	100		39.8	36.5	33.1	31.3	29.3	27	24.4	22.1	19.3	16	13.2	4.7	
6	MC - CC260 - ID - 4	29	26	400	48	1450	150	100		41.3	38	34.7	32.9	30.8	28.6	26.1	23.7	20.8	18	14.8	6.3	
7	MC - CC300 - ID - 4	33	30	400	60	1450	150	100		44	40.2	36.9	34.6	31.8	29.7	27.7	25.4	23.1	21	17.9	10.5	5.3
8	MC - CC340 - ID - 4	39	34	400	68	1450	150	100														

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A max	B	B1	C	C1	D	E	F1	F2	G	P2	P4	P1	Q	S1	S2	S3	S4	S5	T	U	V1	V2	V	KG
		742	583	333	490	220	1257	171	125	303	450	583	863	250	135	350	410	120	160	18	902	1012	310	370	150N	190
1	MC - CC90 - ID - 4	742	583	333	490	220	1257	171	125	303	450	583	863	250	135	350	410	120	160	18	902	1012	310	370	150N	192
2	MC - CC120 - ID - 4	818	592	333	490	220	1266	171	125	303	450	583	939	250	135	350	410	120	160	18	902	1012	310	370	150N	218
3	MC - CC140 - ID - 4	818	592	333	490	220	1266	171	125	303	450	583	939	250	135	350	410	120	160	18	902	1012	310	370	150N	222
4	MC - CC175 - ID - 4	818	592	333	490	220	1266	171	125	303	450	583	939	250	135	350	410	120	160	18	902	1012	310	370	150N	320
5	MC - CC220 - ID - 4	884	691	420	549	244	1365	166	174	306	600	770	994	310	140	350	450	90	140	20	1125	1225	360	420	150N	410
6	MC - CC260 - ID - 4	884	691	420	549	244	1365	166	174	306	600	770	994	310	140	350	450	90	140	20	1125	1225	360	420	150N	420
7	MC - CC300 - ID - 4	1082	691	420	549	244	1365	166	174	306	600	770	1143	310	140	350	450	90	140	20	1125	1225	360	420	150N	430
8	MC - CC340 - ID - 4	1082	691	420	549	244	1365	166	174	306	600	770	1143	310	140	350	450	90	140	20	1125	1225	360	420	150N	430

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS

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K Series

Submersible pumps

Multi-Channel Impeller

K Series

10.5 - 185 kW

Discharge size

DN 150 - 200 - 250 -300 - 400

Elettropompe sommergibili

Girante Bicanale

Serie K

10.5 - 185 kW

Mandata

DN 150 - 200 - 250 -300 - 400

Погружные электронасосы

С двухканальным рабочим колесом

Серия K

10.5 - 185 kW

выходное отверстие

DN 150 - 200 - 250 -300 - 400

Electropompes submersibles

Roue a canaux

Série K

10.5 - 185 kW

Diam. refoulement

DN 150 - 200 - 250 -300 - 400

Bombas sumergibles

Turbina con canales

Modelo K

10.5 - 185 kW

Diámetro impulsión

DN 150 - 200 - 250 -300 - 400

Bombas eléctricas submersíveis

Giratória a canais

Série K

10.5 - 185 kW

Diâmetro boca

DN 150 - 200 - 250 -300 - 400



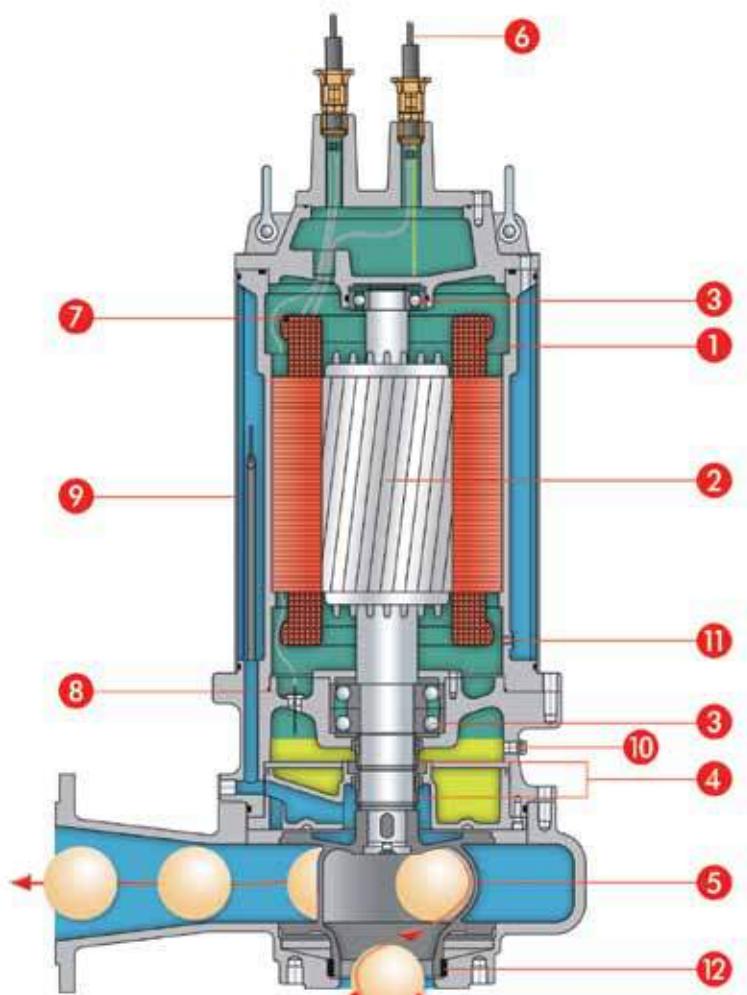


K Series

Technical features
Caratteristiche costruttive

Технические характеристики
Caractéristiques de construction

Características de construcción
Características de construção



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 720 - 960 - 1450 rpm. Voltage: three-phase 3x380/415V-50
Different voltage and frequency on request.
2. Shaft in stainless steel AISI 420
3. Pre-lubricated long-life bearings
4. Double mechanical seal in oil chamber
Water side: silicon carbide/silicon carbide
Motor side: silicon carbide/silicon carbide
5. Closed multi-channel impeller
6. Cable H07RNF
7. Thermal protection embedded in winding (optional)
8. Oil chamber probe
9. Cooling jacket (optional)
10. Oil inspection plug
11. Air plug hole for the motor water tightness control
12. Bronze wear ring

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP68
Giri: 720 - 960 - 1450 al min⁻¹
Voltaggio: trifase 3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta
2. Albero in acciaio AISI 420
3. Cuscinetti prelubrificati lunga vita
4. Doppia tenuta meccanica in camera d'olio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: carburo di silicio/carburo di silicio
5. Girante bicanale chiusa
6. Cavo H07RNF
7. Protezione termica incorporata nell'avvolgimento (optional)
8. Sonda camera olio
9. Camicia di raffreddamento
10. Ispezione olio
11. Controllo tenuta stagna motore
12. Anello usura in bronzo



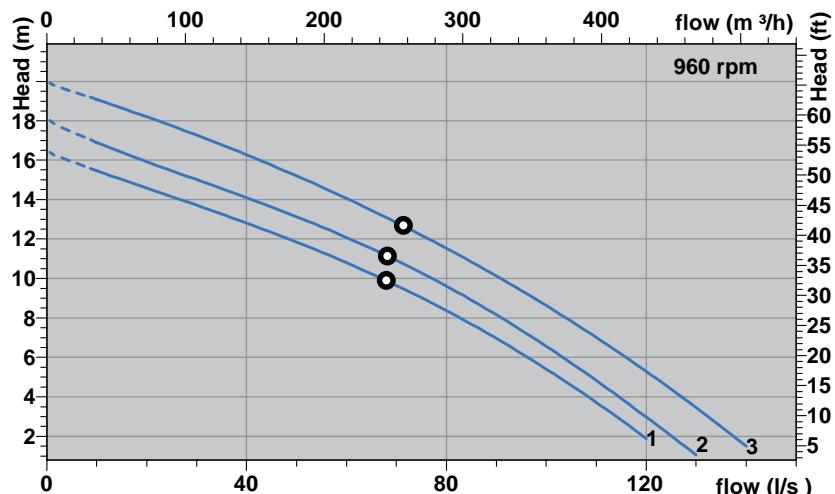
1. Герметичный полностью погружной двигатель.
Класс изоляции Н. Класс защиты IP68.
Скорость вращения: 720 - 960 - 1450 об./мин.
Напряжение: трехфазное 380/415 В 50 Гц.
Другие напряжения и частота под заказ.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники со смазкой
4. Двойное мех. уплотнение в масляной камере
С гидравлической стороны: карбид кремния/ карбид кремния
Со стороны двигателя: карбид кремния/ карбид кремния
5. Двухканальное рабочее колесо
6. Кабель H07RNF
7. Теплозащита в обмотке (опция)
8. Датчик в масляной камере
9. Охлаждающая рубашка (опция)
10. Окошко для контроля масла
11. Контроль герметичности двигателя
12. Расходное кольцо из бронзы

1. Moteur entièrement submersé étanche à l'eau
Classe d'isolation H. indice de protection IP 68
Vitesse de rotation: 720 - 960 - 1450 - tr/mn
Bobinage tri: 3x380/415V-50 Hz Fréquence: 50 Hz
Autres tensions et fréquences sur demande.
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile
Garniture inférieur: Carbure de silicium/Carbure de silicium
Garniture supérieure: Carbure de silicium/Carbure de silicium
5. Roue a canaux
6. Cable H07RNF
7. Protection termique intégré dans le bobinage (en option)
8. Détecteur d'infiltration dans la chambre à huile
9. Chemise de refroidissement
10. Inspection de l'huile
11. Contrôle moteur étanche à l'eau
12. Anneau usure en bronze

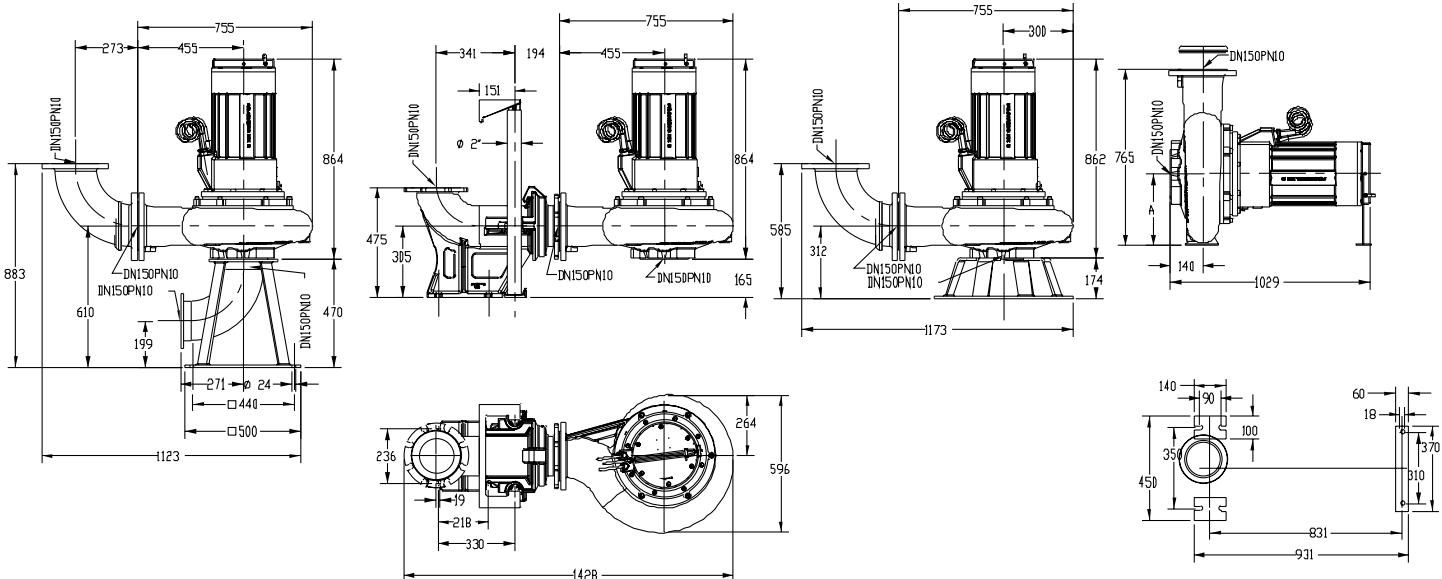
-
1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 720 - 960 - 1450 rpm/min¹
Voltaje: trifásico 3x380/415V-50 Hz
Otros voltajes y frecuencias a demanda.
 2. Eje Acero inoxidable AISI 420
 3. Cojinetes sobredimensionados lubrificados indefinidamente
 4. Doble cierre mecánico en cámara de aceite
Carburo de silicio/Carburo de silicio en el lado agua.
Carburo de silicio/Carburo de silicio en el lado motor
 5. Impulsor con canales
 6. Cable H07RNF
 7. Protector térmico en el bobinado (opcional)
 8. Detector de infiltraciones en la cámara de aceite
 9. Camisa de refrigeración (opcional)
 10. Inspección aceite
 11. Control de motor estanco
 12. Anillo de desgaste de bronce

-
1. Motor totalmente submerso estanco
Isolamentos em classe H. Grau de proteção IP 68
rpm: 720 - 960 - 1450
Tensão: trifásica 3x380/415V-50 Hz
Outras tensões e frequências a pedido.
 2. Eixo em aço AISI 420
 3. Chumaceiras sobredimensionados isentes de manutenção
 4. Duplo contenção na câmara óleo
Contenção inferior: carboneto de silício
Contenção superior: carboneto de silício
 5. Giratória giratória a canais
 6. Cabo H07RNF
 7. Proteção térmica nas bobinas (opcional)
 8. Detector da infiltração na câmara óleo
 9. Camisa de resfriamento
 10. Inspeção de óleo
 11. Controle motor estanque
 12. Anel de desgaste de bronze

KC - 6

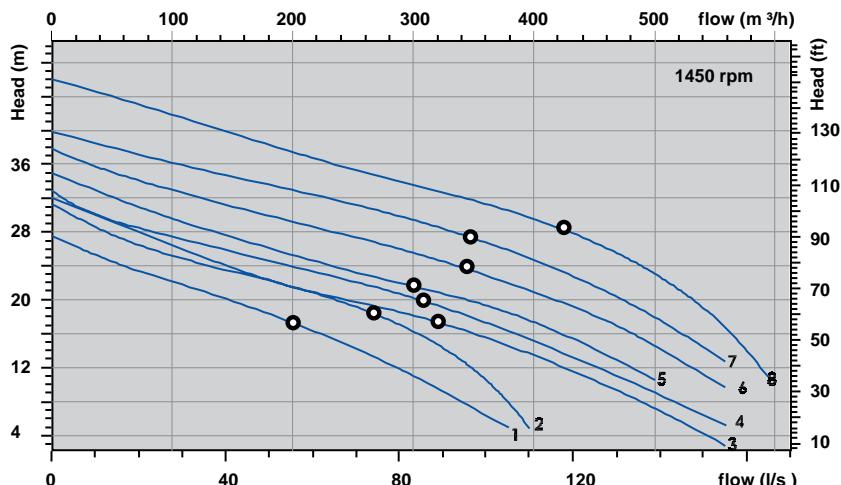
PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	V	KG	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO									
											l/sec m³/h	0	20	40	60	80	100	120	140	150
1	KC - CL105 - ID - 6	14.5	10.5	400	25	960	150	80	150N	310	H m	16.4	14.6	12.8	10.8	8.4	5.4	1.9		
2	KC - CL115 - ID - 6	15.5	11.5	400	27	960	150	80	150N	310		18	16	14	12.1	9.7	6.5	3		
3	KC - CL135 - ID - 6	16	13.5	400	29.4	960	150	80	150N	310		19.9	18.2	16.3	14	11.6	8.6	5.3	1.5	

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS



KC - 4

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO											
Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	Ø	l/sec	0	20	40	60	80	100	120	140	150	160
		kW	kW			rpm		mm	m³/h	0	72	144	216	288	360	432	504	540	576
1	KC - CL140 - ID - 4	17	14	400	30	1450	150	80		27.4	23.4	20	16.3	11.8	6.4				
2	KC - CL190 - ID - 4	22	19	400	45	1450	150	80		31.8	28	24	20.7	17	10.5				
3	KC - CL260 - ID - 4	30	26	400	48	1450	150	80		31.2	26.5	23.4	21	18.6	15.5	11.6	6.8	4.2	
4	KC - CL300 - ID - 4	33	30	400	63	1450	150	80		32.5	28.8	25.6	23.1	20.7	17.5	13.2	8.4	6.6	
5	KC - CL340 - ID - 4	39	34	400	68	1450	150	80		35	31	27.4	24.6	22	19.2	16	9.4	6.9	
6	KC - CL380 - ID - 4	42	38	400	72	1450	150	80		37.5	34.3	31.1	28.5	26.1	23	19.1	14.1	11.4	
7	KC - CL450 - ID - 4	48	45	400	75	1450	150	80		40	37.1	34.7	32.4	29.9	26.7	22.7	17.6	14.4	
8	KC - CL520 - ID - 4	56	52	400	88	1450	150	80		46	42.7	40	37.1	34	30.9	27.7	23.1	18.8	13.8

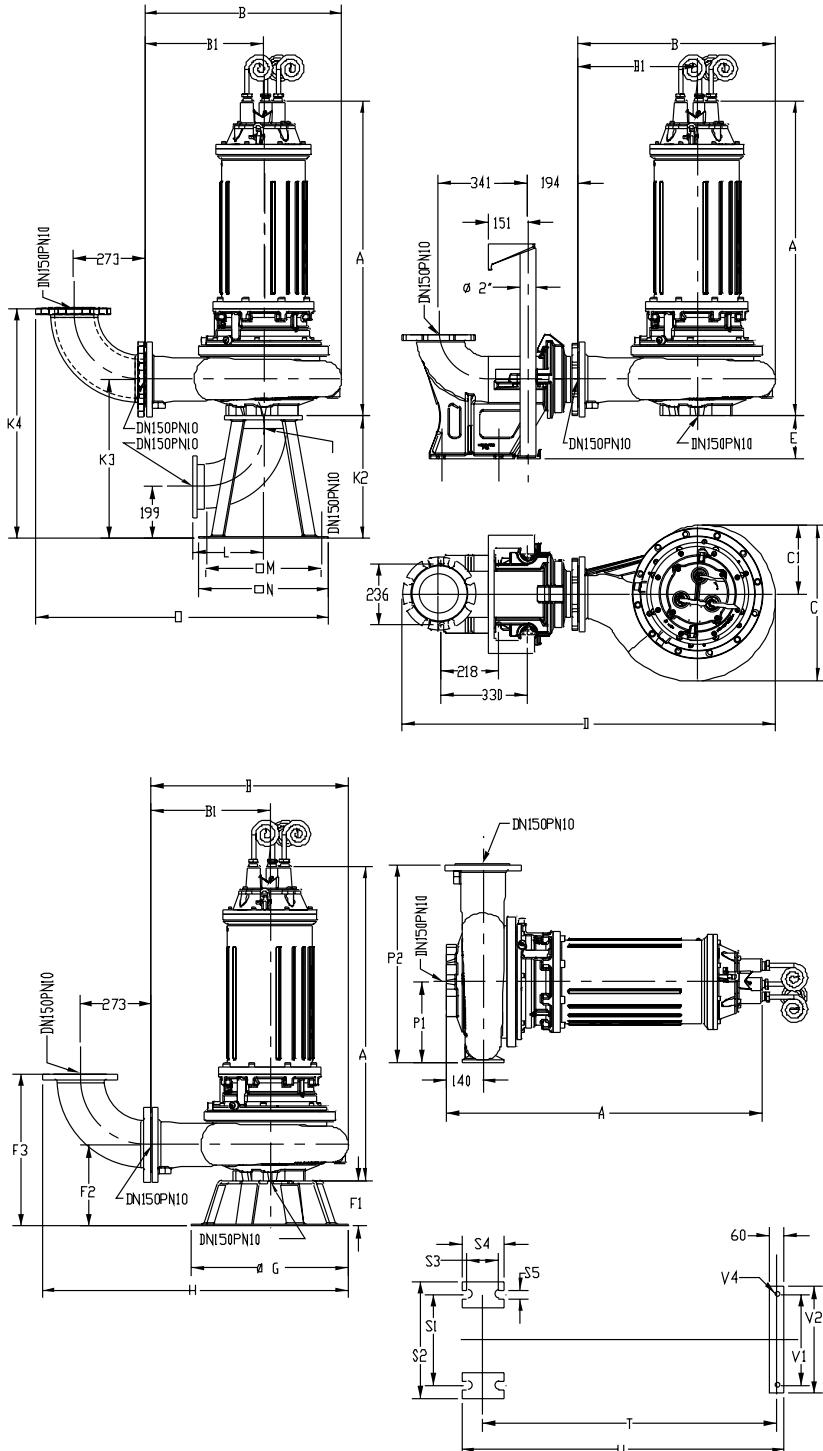


KC - 4

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO

ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT

DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



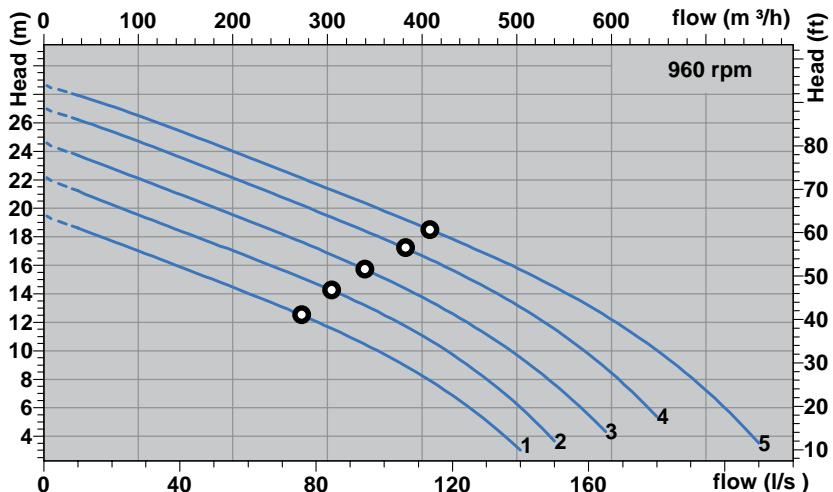
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A max	B	B1	C	C1	D	E	F1	F2	F3	G	H	O	P1	K2	K3	K4	L	M	N	P2	S1	S2	S3	S4	S5	T max	U max	V1	V2	V4	V	KG
1	KC-CL140-ID-4	820	608	370	468	209	1273	170	125	260	533	450	1024	310	470	605	878	271	440	500	250	620	350	410	120	160	18	902	1012	310	370	18	150N	218
2	KC-CL190-ID-4	1100	690	420	548	241	1355	167	174	260	447	600	1106	250	470	605	878	271	440	500	310	730	350	450	90	140	20	1125	1225	360	420	20	150N	320
3	KC-CL260-ID-4	864	755	455	596	264	1429	755	455	596	585	264	1429	1123	310	470	610	883	271	440	500	765	350	450	90	140	20	1125	1135	360	420	20	150N	410
4	KC-CL300-ID-4	1062	755	455	596	264	1429	755	455	596	585	264	1429	1123	310	470	610	883	271	440	500	765	350	450	90	140	20	1125	1135	360	420	20	150N	420
5	KC-CL340-ID-4	1062	755	455	596	264	1429	755	455	596	585	264	1429	1123	310	470	610	883	271	440	500	765	350	450	90	140	20	1125	1135	360	420	20	150N	430
6	KC-CL380-ID-4	1208	755	455	596	264	1429	165	174	312	585	600	1173	1123	310	500	640	913	283	560	650	760	450	550	120	160	23	1144	1254	360	420	23	150N	550
7	KC-CL450-ID-4	1208	755	455	596	264	1429	165	174	312	585	600	1173	1123	310	500	640	913	283	560	650	760	450	550	120	160	23	1144	1254	360	420	23	150N	560
8	KC-CL520-ID-4	1208	755	455	596	264	1429	165	174	312	585	600	1173	1123	310	500	640	913	283	560	650	760	450	550	120	160	23	1144	1254	360	420	23	150N	615

* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



KC - 6

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	\varnothing mm	V	KG	I/sec	0	10	20	40	60	80	100	120	140	160	180	200
											m³/h	0	36	72	144	216	288	360	432	504	576	648	720
1	KC - CL170 - JD-6R	19.5	17	400	36	960	200	100	200N	492	H	19.5	18.6	17.7	15.9	14	12.1	9.7	6.9	3			
2	KC - CL170 - JD-6	19.5	17	400	36	960	200	100	200N	515		22.2	21.2	20.3	18.4	16.6	14.8	12.4	9.8	6			
3	KC - CL220 - JD-6	26	22	400	48	960	200	100	200N	517		24.5	23.7	22.8	21	19.1	17.2	15.1	12.6	9.5	5.5		
4	KC - CL250 - JD-6	29.3	25	400	55.5	960	200	100	200N	545		27	26.2	25.4	23.6	21.7	19.8	17.8	15.7	13.1	9.7	5.4	
5	KC - CL340 - JD-6	36.9	34	400	67.5	960	200	100	200N	758		28.5	28	27	25.5	23.6	21.7	19.8	17.8	15.7	13.2	10	6

DIMENSION DRAWINGS

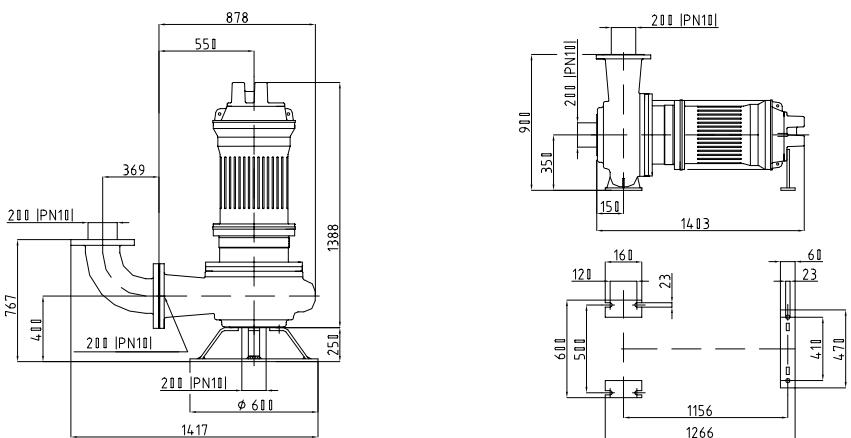
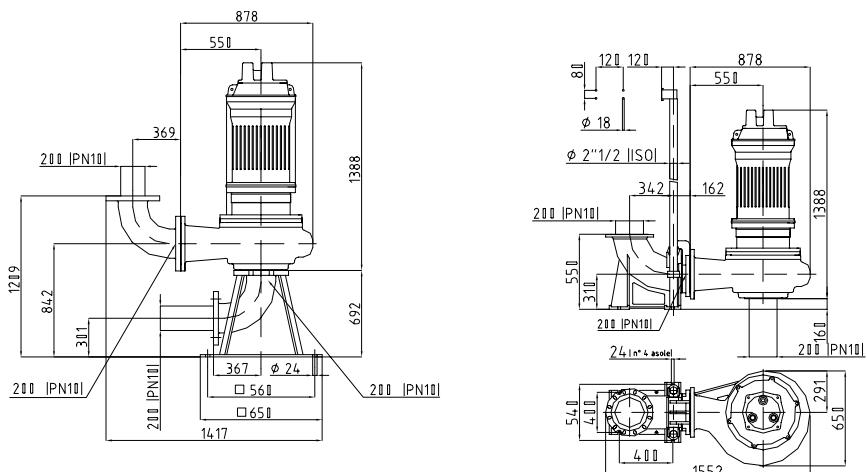
DIMENSIONI D'INGOMBRO

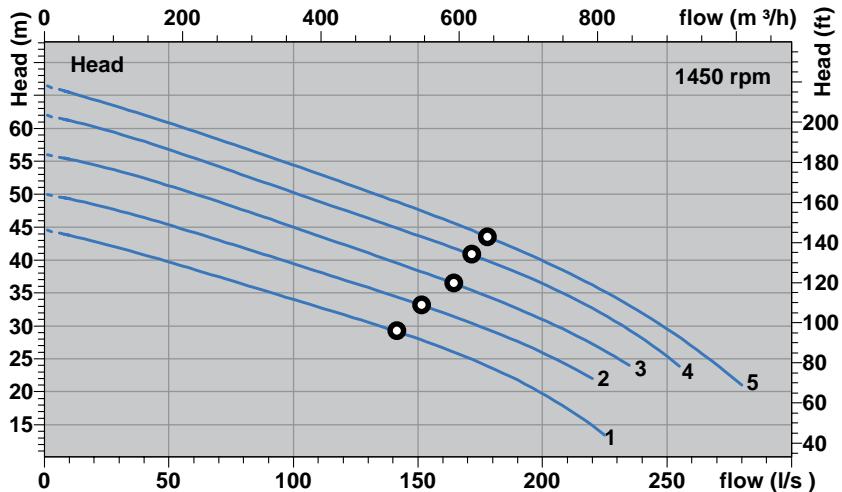
ГАБАРИТНЫЕ ЧЕРТЕЖИ

DIMENSIONS D'ENCOMBREMENT

DIMENSIONES TOTALES

DIMENSÕES GLOBAIS



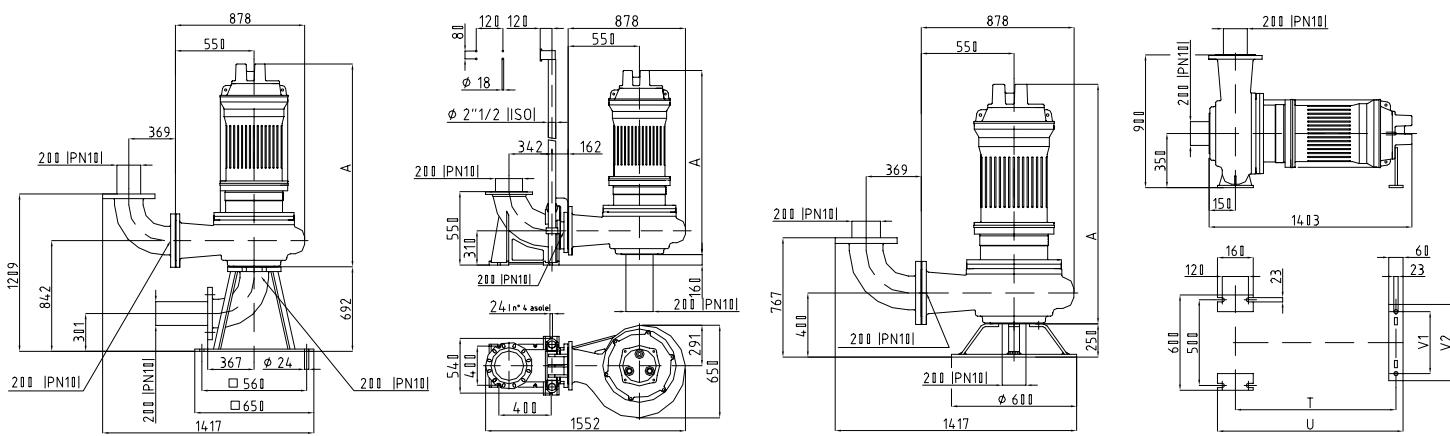
KC - 4PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA
GERAIS

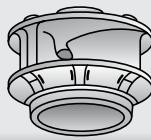
PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec		0	10	20	40	60	80	100	120	140	160	180	200	220	240	260	280
									m³/h	l/s	0	0	72	144	216	288	360	432	504	576	648	720	792	864	936	1008
1	KC - CL680 - JD - 4	74.7	68	400	130	1450	200	100			44.5	43.9	42.9	40.8	38.5	36.3	34	31.2	29.2	26.5	23.4	19.7	14.9			
2	KC - CL790 - JD - 4	85	79	400	141	1450	200	100			50	49.5	48.5	46.5	44.2	41.8	39.5	37.1	34.6	32.2	29.3	25.9	21.8			
3	KC - CL900 - JD - 4	99	90	400	164	1450	200	100			56	55	54.4	52.4	50	47.6	45	42.4	39.9	37.3	34.4	31.3	27.5			
4	KC - CLA05 - JD - 4	114	105	400	188	1450	200	100			62	61.5	60.2	58	55.9	53	50.4	47.6	45	42.3	39.4	36.3	32.8	28.4		
5	KC - CLA27 - JD - 4	138	127	400	231	1450	200	100			66.5	65.5	64.3	62	59.4	56.7	54	51.2	48.6	45.8	43	40	36.4	32.2	26.9	21.5

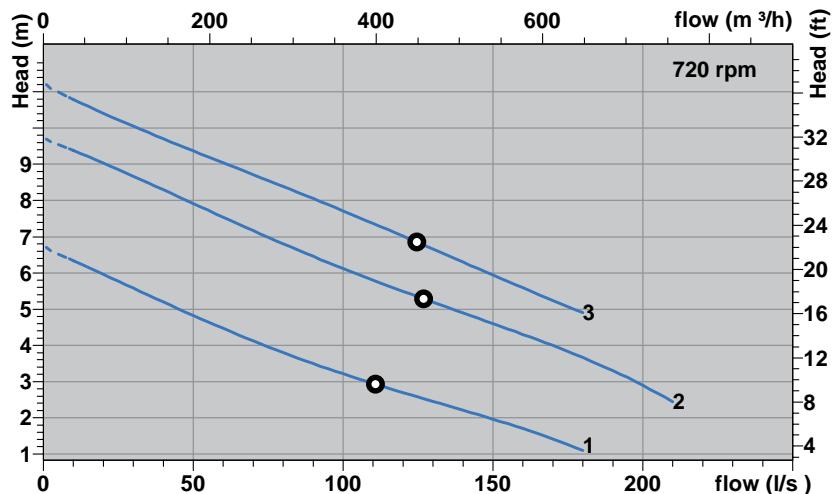
INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ
DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO

Nr	Modello - Type	A max	R max	T max	U max	V1	V2	V	KG	H m	
										l/sec	m³/h
1	KC - CL680 - JD - 4	1158	1533	1286	1396	410	470	200N	662		
2	KC - CL790 - JD - 4	1158	1533	1286	1396	410	470	200N	753		
3	KC - CL900 - JD - 4	1158	1533	1286	1396	410	470	200N	930		
4	KC - CLA05 - JD - 4	1158	1533	1286	1396	410	470	200N	1000		
5	KC - CLA27 - JD - 4	1673	1388	1440	1550	508	568	200N	1030		

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS

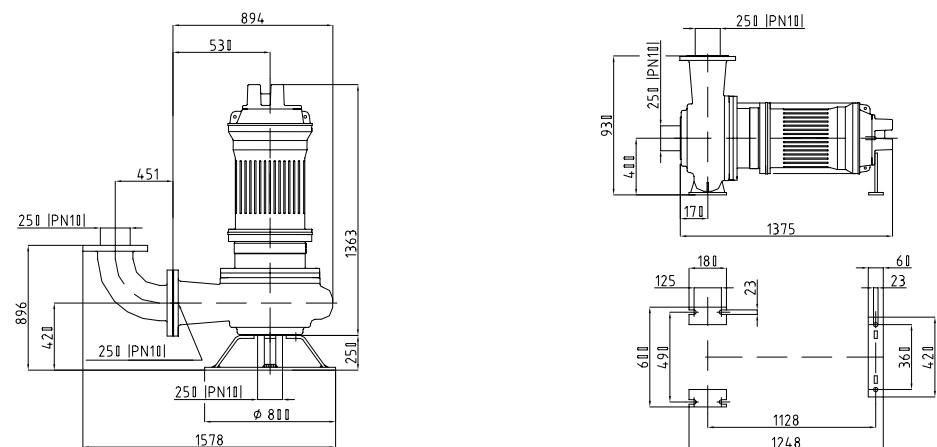
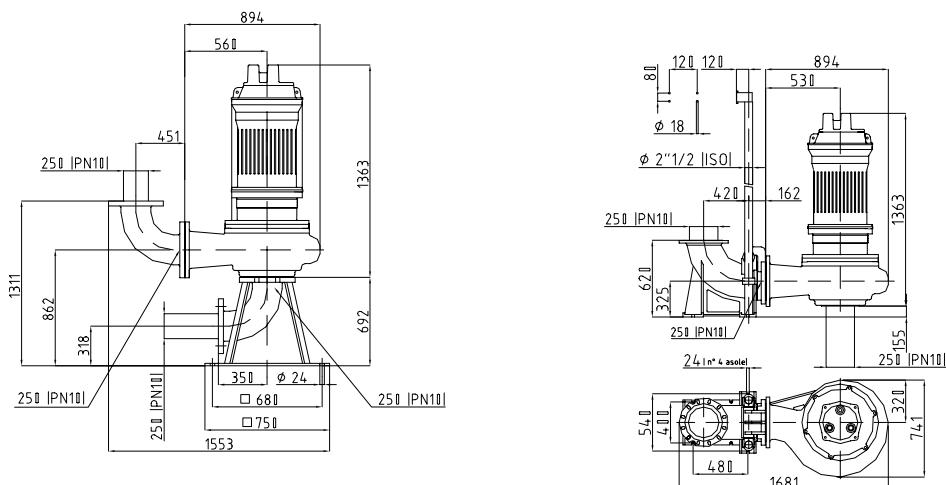


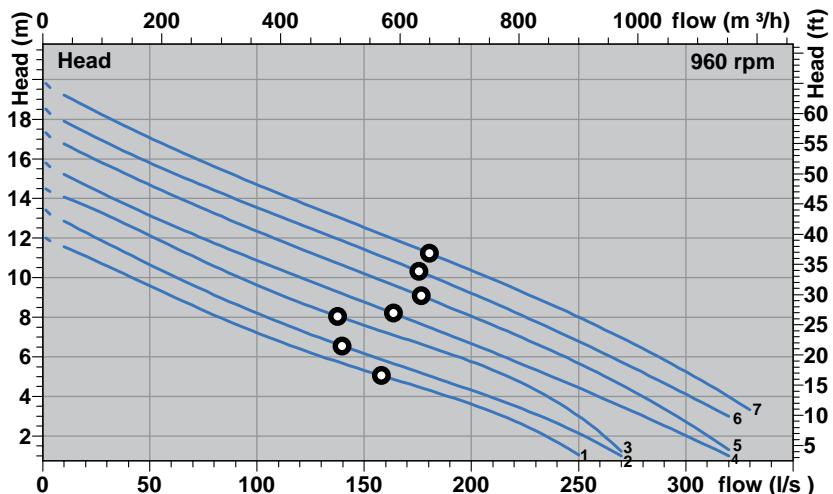
KC - 8

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS										PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCIAS - RENDIMENTO - EXECUÇÃO														
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	V	KG	l/sec	0	12	20	40	60	80	100	120	140	160	180	200	240
1	KC - CL110 - KD - 8R	13.1	11	400	26.1	720	250	130	250N	490	6.7	6.3	6	5.2	4.5	3.8	3.2	2.7	2.2	1.7	1.1	0.8	0.6	
2	KC - CL110 - KD - 8	13.1	11	400	26.1	720	250	130	250N	502	9.7	9.3	9	8.3	7.5	6.9	6.1	5.4	4.8	4.2	3.6	2.9	2.3	
3	KC - CL144 - KD - 8	17.1	14.4	400	33.8	720	250	130	250N	542	11.2	10.7	10.5	9.8	9	8.3	7.6	7	6.3	5.6	4.9	4.2	3.2	

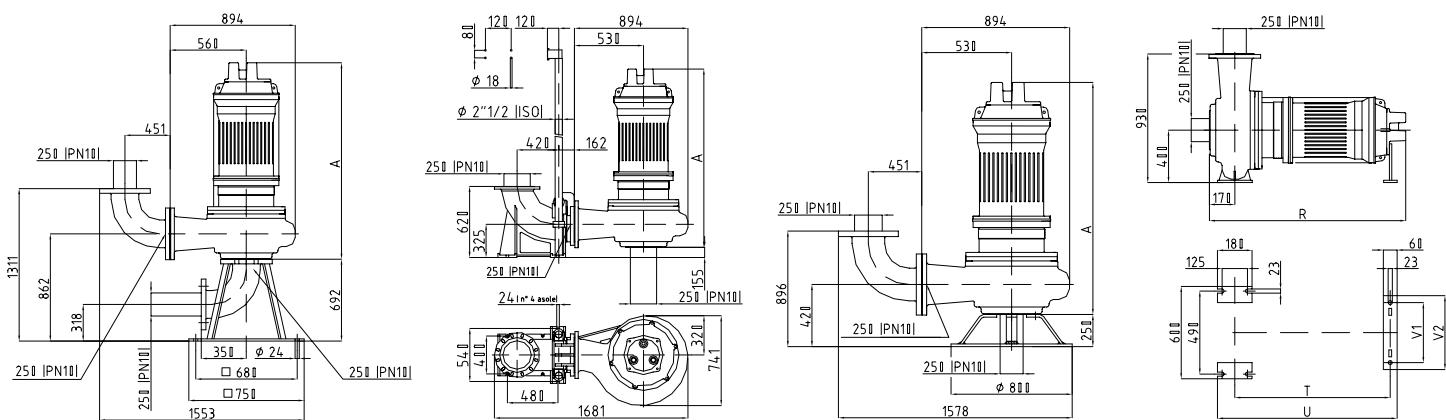
DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



KC - 6PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

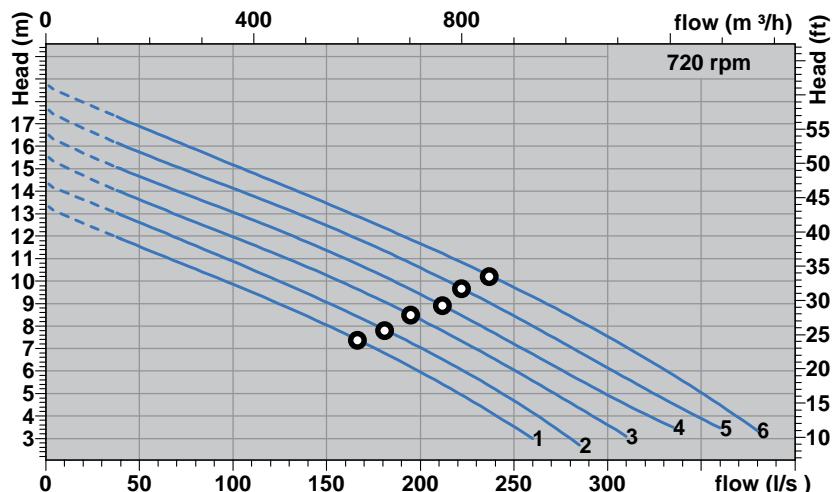
GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO																
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec	0	12	20	40	60	80	100	120	140	160	180	200	240	280	320
									m³/h	0	43	72	144	216	288	360	432	504	576	648	720	864	1008	1152
1	KC - CL170 - KD - 6R	19.5	17	400	36.4	960	250	130	H m	12	11.5	11	10.1	9	8.1	7.2	6.3	5.6	5	4.3	3.6	1.7		
2	KC - CL170 - KD - 6	19.5	17	400	36.4	960	250	130		13.5	12.7	12.2	11.2	10.2	9.2	8.2	7.3	6.5	5.8	5	4.3	2.7		
3	KC - CL 200 - KD - 6	22.4	20	400	41.2	960	250	130		14.5	14	13.6	12.6	11.6	10.6	9.7	8.8	8	7.2	6.5	5.7	3.8		
4	KC - CL 220 - KD - 6	26	22	400	48.3	960	250	130		16	15	14.6	13.6	12.6	11.7	10.9	10.1	9.2	8.4	7.5	6.6	5	3	1
5	KC - CL 250 - KD - 6	29.3	25	400	55.5	960	250	130		17.5	16.6	16.2	15.1	14.2	13.2	12.3	11.5	10.6	9.8	9	8.1	6.2	4.1	1.4
6	KC - CL 330 - KD - 6	36.9	33	400	67.5	960	250	130		18.5	17.8	17.4	16.4	15.3	14.4	13.6	12.6	11.7	11	10.2	9.3	7.3	5.1	
7	KC - CL 400 - KD - 6	45	40	400	82	960	250	130		20	19.1	18.6	17.6	16.5	15.6	14.7	13.8	13	12.1	11.3	10.4	8.5	6.5	4

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO									
Nr	Modello - Type	A max	R max	T max	U max	V1	V2	V	
1	KC - CL170 - KD - 6R	1363	1375	1128	1248	360	420	250N	552
2	KC - CL170 - KD - 6	1363	1375	1128	1248	360	420	250N	552
3	KC - CL 200 - KD - 6	1363	1375	1128	1248	360	420	250N	585
4	KC - CL 220 - KD - 6	1363	1375	1128	1248	360	420	250N	595
5	KC - CL 250 - KD - 6	1363	1375	1128	1248	360	420	250N	617
6	KC - CL 330 - KD - 6	1584	1563	1296	1416	410	470	250N	702
7	KC - CL 400 - KD - 6	1584	1563	1296	1416	410	470	250N	735

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS

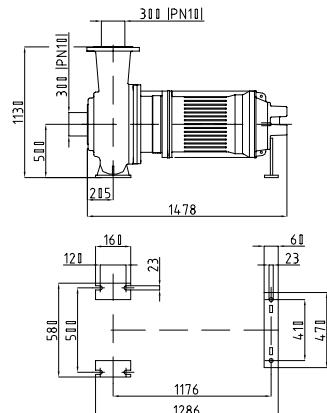
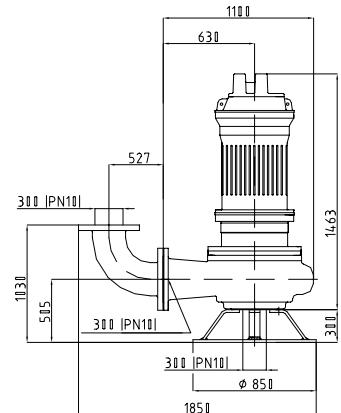
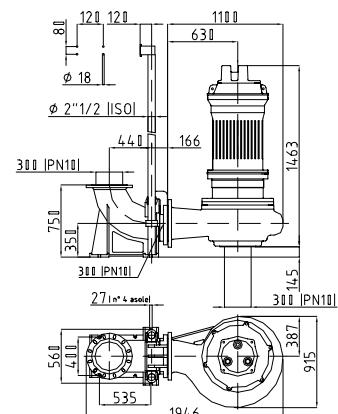
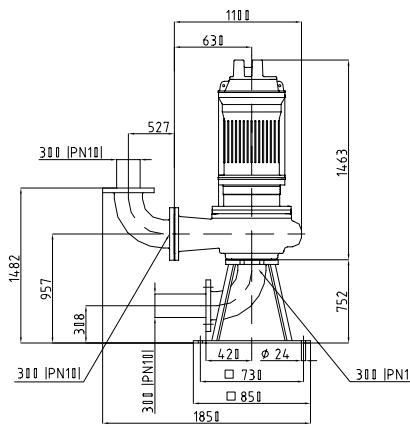


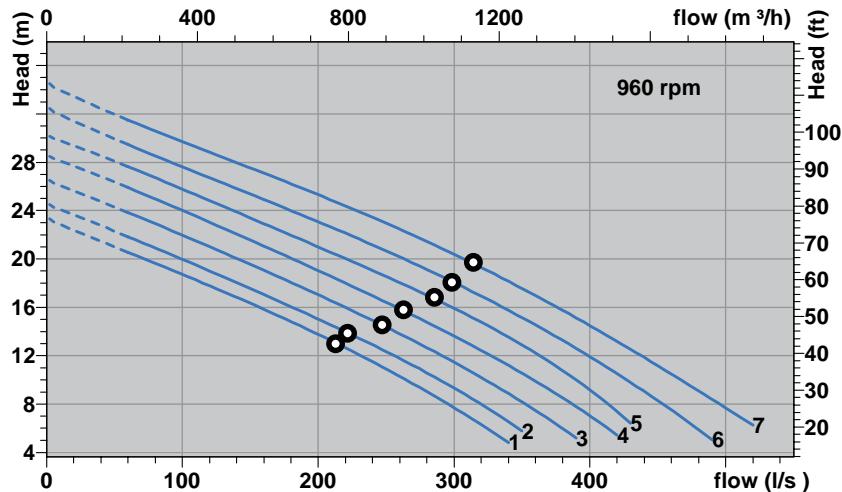
KC - 8

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ - CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS										PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO																					
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	V	KG	l/sec	0	40	60	80	100	120	150	160	200	240	250	280	300	320	350	360	380			
1	KC - CL250 - LD - 83R	28	25	400	55	720	300	150	300N	888	m³/h	0	144	216	288	360	432	540	576	720	864	900	1008	1080	1152	1260	1296	1368			
2	KC - CL250 - LD - 8RR	28	25	400	55	720	300	150	300N	890	H m	13.4	11.9	11.3	10.5	9.8	9.1	8	7.7	5.9	4	3.6									
3	KC - CL250 - LD - 8R	28	25	400	55	720	300	150	300N	893		14.4	12.9	12.2	11.6	10.9	10.2	9.2	8.8	7	5.3	4.8	3.3								
4	KC - CL250 - LD - 8	28	25	400	55	720	300	150	300N	895		15.5	14	13.4	12.7	12	11.2	10.3	9.8	8.3	6.4	6	4.6	3.5							
5	KC - CL310 - LD - 8R	35	31	400	67	720	300	150	300N	915		16.5	15	14.3	13.8	13	12.3	11.3	10.9	9.4	7.7	7.3	5.8	4.8	3.9						
6	KC - CL310 - LD - 8	35	31	400	67	720	300	150	300N	918		17.6	16.1	15.4	14.8	14.1	13.4	12.4	12.1	10.5	9	8.5	7	6.2	5.2	3.6	2.4				
												18.7	17.2	16.5	15.9	15.2	14.6	13.6	13.2	11.7	10.2	9.7	8.4	7.5	6.5	6	5.5	3.5			

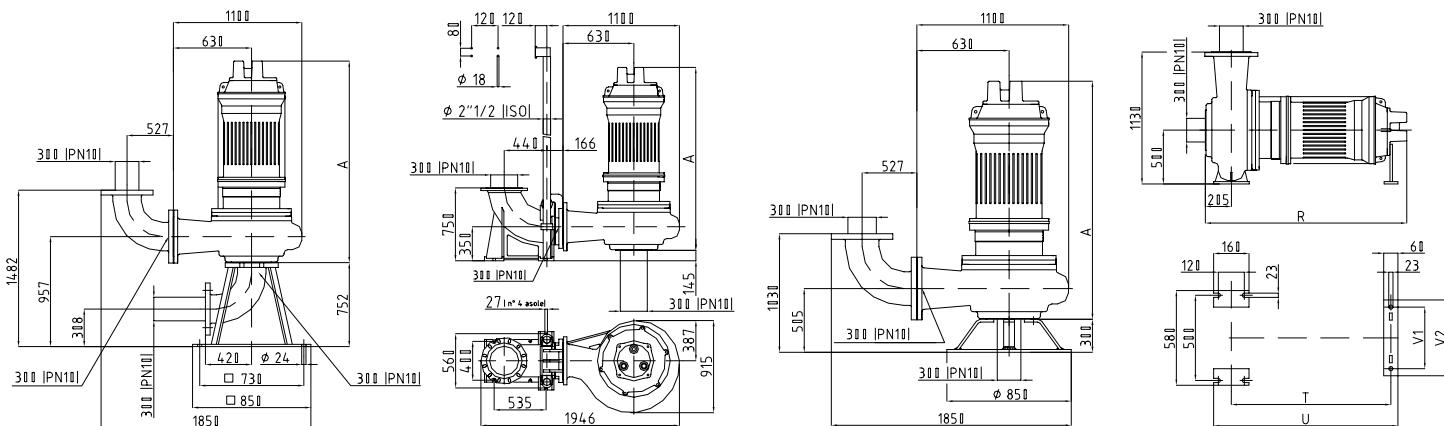
DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



KC - 6PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

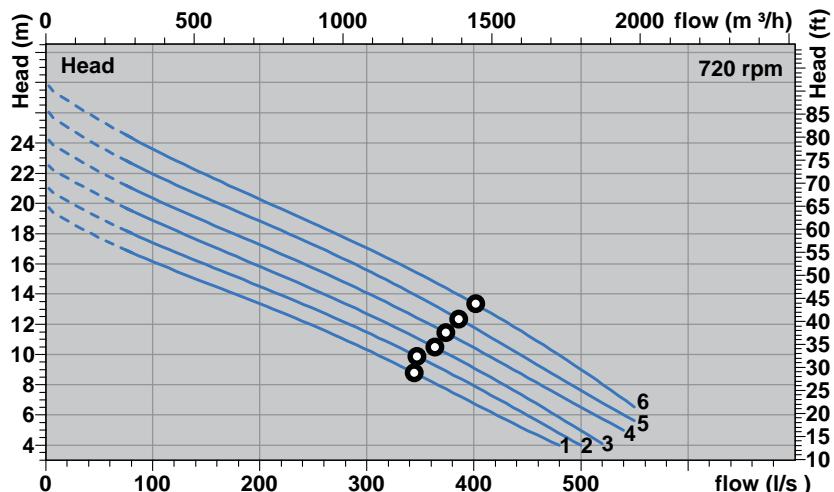
GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ - CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO																						
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec	0	40	60	80	100	120	150	160	200	240	250	280	300	320	350	360	380	400	450	500	
1	KC - CL400 - LD - 6	45	40	400	82	960	300	150	m³/h	0	144	216	288	360	432	540	576	720	864	900	1008	1080	1152	1260	1296	1368	1440	1620	1800	
2	KC - CL500 - LD-6R	55	50	400	100	960	300	150	H m	23.2	21.5	20.5	19.5	18.6	17.5	16.3	15.8	13.8	11.5	10.9	9	7.8	6.6							
3	KC - CL500 - LD-6	55	50	400	100	960	300	150		24.5	22.8	21.7	21	19.9	19	17.6	17.1	15.1	12.8	12.3	10.7	9.1	8	5.8						
4	KC - CL580 - LD-6	64	58	400	118	960	300	150		26.5	24.6	23.7	22.9	21.9	21.1	19.6	19	17.2	15	14.4	12.6	11.4	10.2	8.1	7.5	6.2				
5	KC - CL690 - LD-6R	75	69	400	138	960	300	150		28.5	26.8	25.6	24.9	23.9	23	21.6	21.1	19.1	17	16.5	14.7	13.6	12.5	10.4	10	8.6	7.1			
6	KC - CL690 - LD-6	75	69	400	138	960	300	150		30.1	28.6	27	26.7	25.8	24.8	23.5	23	21.2	19.1	17	15.8	14.6	12.7	12.3	11	9.6	8.3			
7	KC - CL820 - LD-6	90	82	400	166	960	300	150		32.5	30.5	29	28.5	27.8	26.4	25.6	25	23.2	21.2	20.7	19.1	18	17	15	14.6	13.2	12	8.7		
										34.5	32.5	31	30.5	29.8	28.7	27.5	27.1	25.2	23.4	22.8	21.4	20.2	19.2	17.4	16.8	15.6	14.3	11	7.7	

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ - DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO		A max	R max	T max	U max	V1	V2	V	KG
1	KC - CL400 - LD - 6	1593	1608	1306	1416	410	470	300N	910
2	KC - CL500 - LD-6R	1593	1608	1306	1416	410	470	300N	975
3	KC - CL500 - LD-6	1593	1608	1306	1416	410	470	300N	975
4	KC - CL580 - LD-6	1593	1608	1306	1416	410	470	300N	1040
5	KC - CL690 - LD-6R	1773	1788	1486	1596	508	568	300N	1125
6	KC - CL690 - LD-6	1773	1788	1486	1596	508	568	300N	1125
7	KC - CL820 - LD-6	1773	1788	1486	1596	508	568	300N	1198

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИНТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS

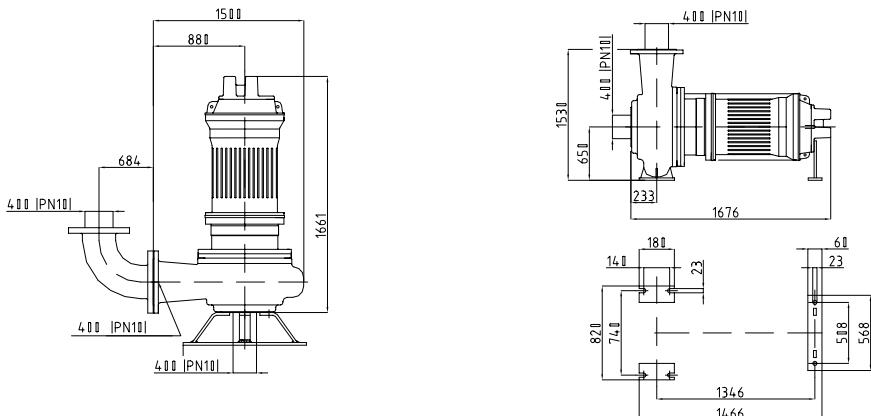
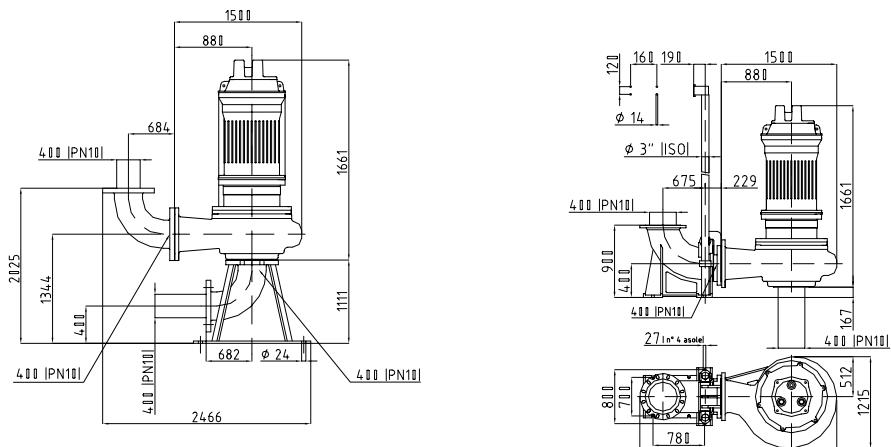


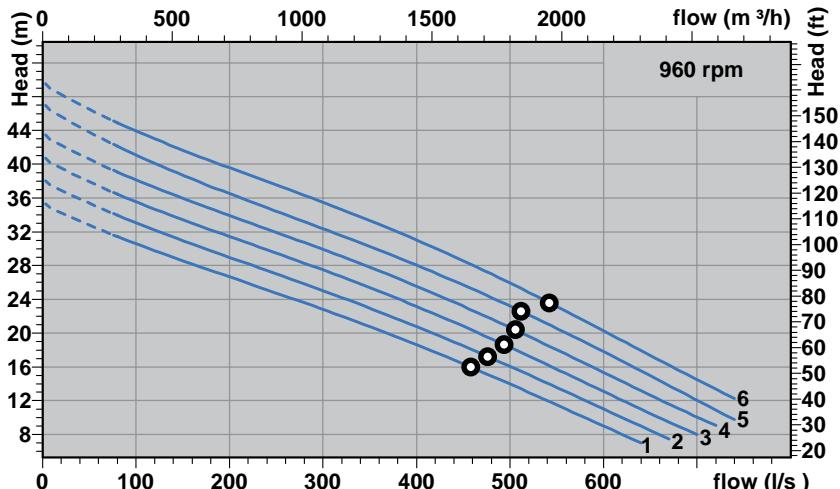
KC - 8

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS										PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO																
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	V	KG	l/sec	0	80	100	150	200	250	300	350	400	450	500	550	600		
1	KC - CL450 - ND - 8R	50	45	400	94	720	400	165	400N	1550	H	19.7	16.7	16.1	14.7	13.3	11.8	10.3	8.5	6.7	4.8					
2	KC - CL450 - ND - 8	50	45	400	94	720	400	165	400N	1560		21	18.1	17.4	15.9	14.5	13.1	11.4	9.7	7.8	6	4				
3	KC - CL530 - ND - 8	58	53	400	110	720	400	165	400N	1590		22.5	19.5	18.9	17.3	15.8	14.3	12.7	11	9.1	7.1	5.1				
4	KC - CL630 - ND - 8R	70	63	400	130	720	400	165	400N	1620		24.3	21	20.3	18.8	17.3	15.7	14.1	12.3	10.4	8.4	6.4				
5	KC - CL630 - ND - 8	70	63	400	130	720	400	165	400N	1630		26	22.6	21.9	20.3	18.8	17.2	15.5	13.7	11.8	9.8	7.7	5.8			
6	KC - CL720 - ND - 8	79	72	400	148	720	400	165	400N	1670		28	24.2	23.6	21.9	20.3	18.8	17.1	15.2	13.3	11.2	9.1	7			

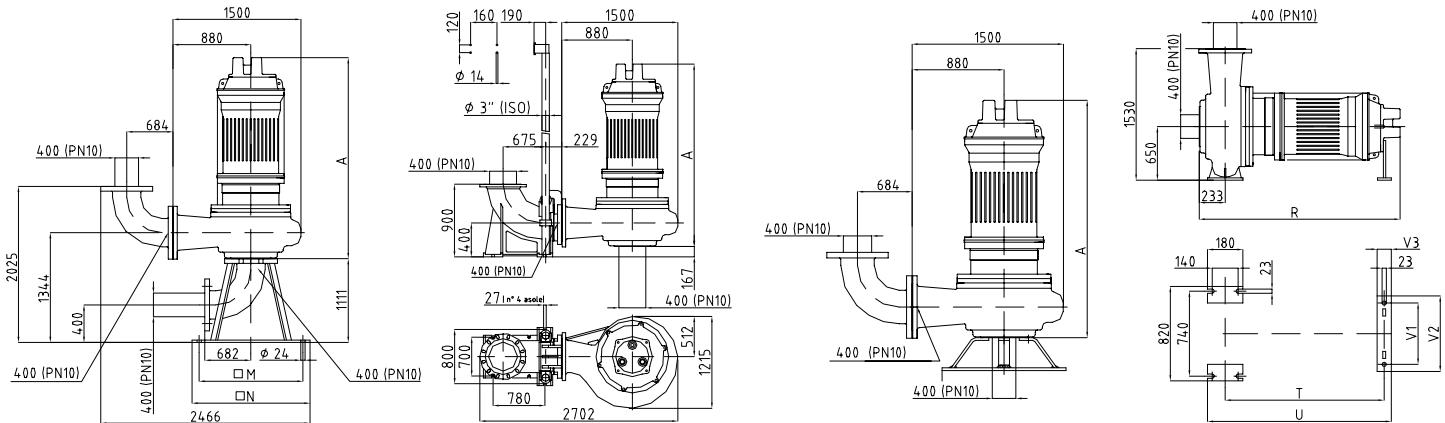
DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS

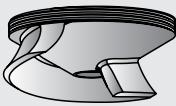


KC - 6PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICAGENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ
CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS

Nr	Modello - Type	P1	P2	Volt	Amp	Giri	DN	Ø mm	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO														
		kW	kW			rpm			l/sec	0	80	100	150	200	250	300	350	400	450	500	550	600	700
1	KC - CLA12 - ND-6R	123	112	400	227	960	400	165	m³/h	34.7	31.3	30.4	28.5	26.6	24.8	22.8	20.8	18.6	13.2	13.9	11.3	8.9	
2	KC - CLA12 - ND-6	123	112	400	227	960	400	165		38	33.8	32.9	30.8	28.8	27	24.9	22.8	20.7	18.4	16	13.5	11	
3	KC - CLA32 - ND-6	141	132	400	241	960	400	165		41	36.4	35.5	33.2	31.3	29.3	27.3	25.3	23	20.8	18.3	15.9	13.1	7.8
4	KC - CLA60 - ND-6	169	160	400	287	960	400	165		43.5	39.3	38.3	36	33.7	31.8	29.8	27.7	25.6	24.2	20.7	18.2	15.3	10.1
5	KC - CLA69 - ND-6	169	160	400	287	960	400	165		47	42	41	38.7	36.7	34.5	32.5	30.4	28.2	25.8	23.2	20.5	17.8	12.2
6	KC - CLA85 - ND-6	195	185	400	337	960	400	165		50	45.1	44	41.8	39.6	37.5	35.3	33	30.8	28.5	25.9	23.3	20.4	14.7

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO								
Nr	Modello - Type	A max	R max	T max	U max	V1	V2	V
1	KC - CLA12 - ND-6R	1811	1826	1496	1616	508	568	400N
2	KC - CLA12 - ND-6	1811	1826	1496	1616	508	568	400N
3	KC - CLA32 - ND-6	2674	2073	1801	1941	740	800	400N
4	KC - CLA60 - ND-6	2674	2073	1801	1941	740	800	400N
5	KC - CLA69 - ND-6	2674	2073	1801	1941	740	800	400N
6	KC - CLA85 - ND-6	2894	2293	2021	2161	740	800	400N
								2465

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖКИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS



MA Series

Submersible pumps

Single channel Impeller

MA Series

0.6 - 2.6 kW

Discharge size

DN 50

Elettropompe sommergibili

Girante Monocanale

Serie MA

0.6 - 2.6 kW

Mandata

DN 50

Погружные электронасосы

С одноканальным рабочим

Серия MA

0.6 - 2.6 kW

выходное отверстие

DN 50

Electropompes submersibles

Roue monocanal

Série MA

0.6 - 2.6 kW

Diam. refoulement

DN 50

Bombas sumergibles

Turbina monocanal

Modelo MA

0.6 - 2.6 kW

Diámetro impulsión

DN 50

Bombas eléctricas submersíveis

Gitatória mono-canal

Série MA

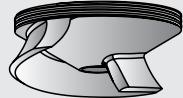
0.6 - 2.6 kW

Diâmetro boca

DN 50



MA Series



Technical features

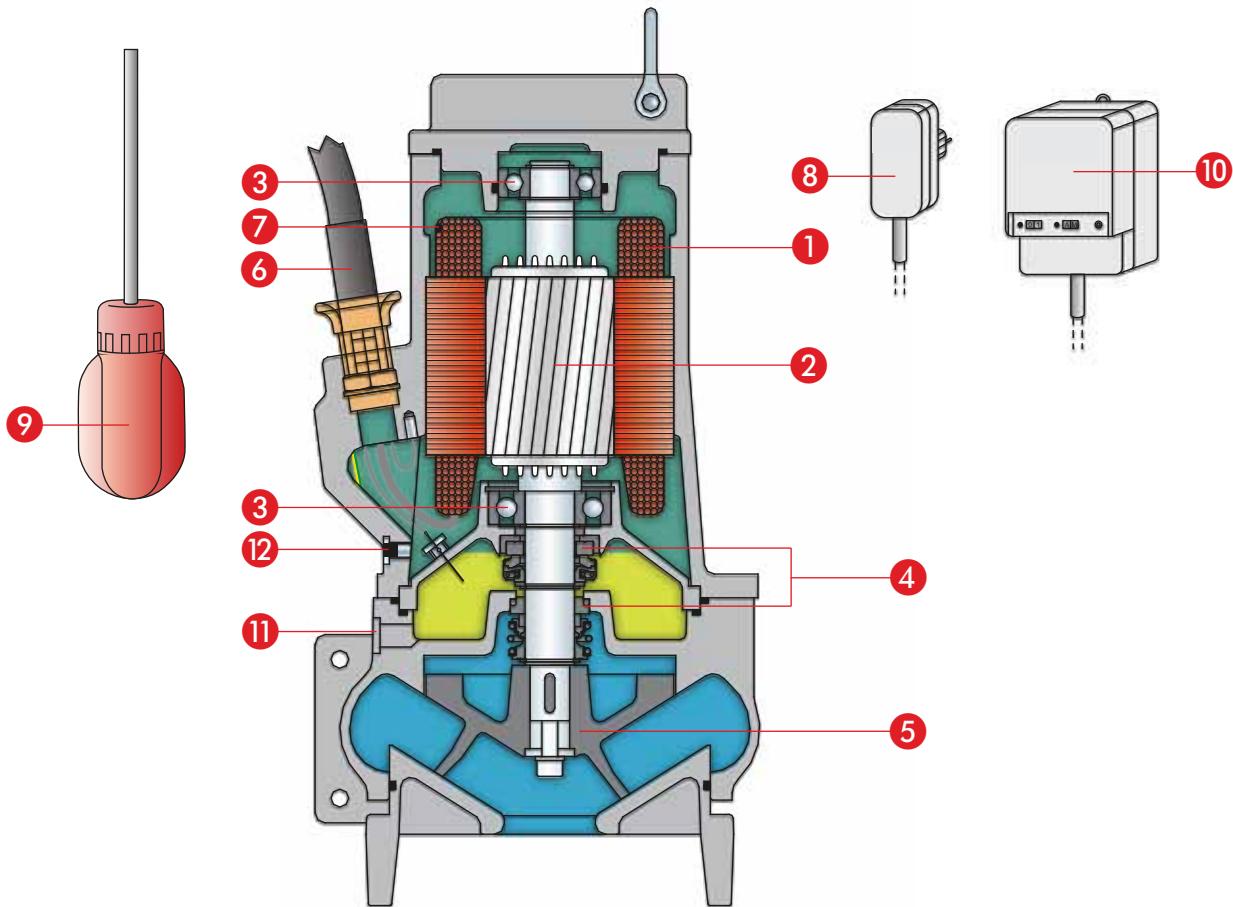
Caratteristiche costruttive

Технические характеристики

Caractéristiques de construction

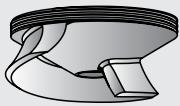
Características de construcción

Características de construção



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 2850 rpm. Voltage: single-phase 1x230V-50 Hz
Three-phase 3x380/415V-50 Hz.
Different voltage and frequency on request.
2. Shaft in stainless steel AISI 420
3. Heavy duty Bearings for long life
4. Double mechanical seal in oil chamber + radial lipseal
Water side: silicon carbide/silicon carbide
Motor side: graphite/alumina
5. Single-channel open impeller
6. Cable H07RNF
7. Thermal protection standard in the single phase execution
8. Plug with capacitor
9. Float switch regulator
10. AET-AEM electrical gear for three-phase and single-phase execution
11. Oil inspection plug
12. Air plug hole for the motor water tightness control

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP 68
Giri: 2850 al min-1. Voltaggio: monofase 1x230V-50 Hz e trifase 3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta.
2. Albero in acciaio AISI 420
3. Cuscinetti sovrardimensionati lunga vita
4. Doppia tenuta meccanica in camera d'olio + paraolio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: grafite/allumina
5. Girante Monocanale Aperta
6. Cavo H07RNF
7. Protezione termica di serie nella versione monofase
8. Spina condensatore
9. Galleggiante
10. AET-AEM quadro elettrico per versione trifase e monofase
11. Ispezione olio
12. Controllo tenuta stagna motore



MA Series

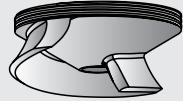
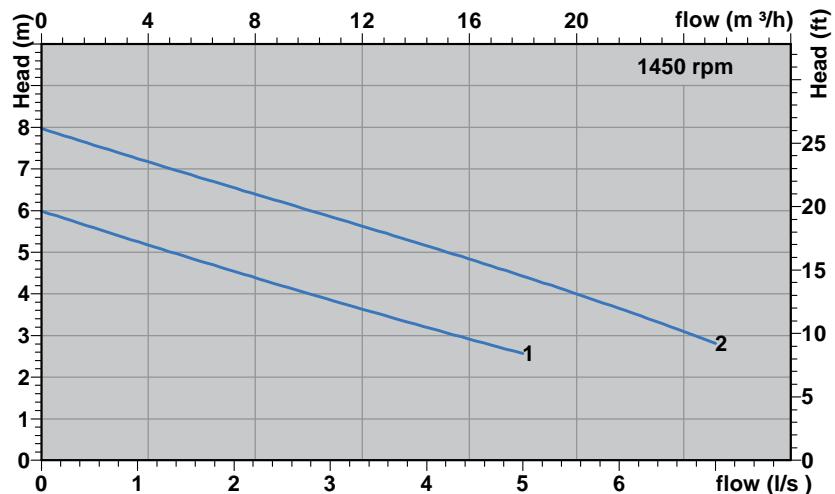
1. Полностью погружной двигатель с герметичным уплотнением. Класс изоляции Н. Класс защиты IP68. Скорость вращения: 2850 об./мин. Напряжение: монофазное 1x230 В 50 Гц и трехфазное 380/415 В 50 Гц. Другие напряжения и частота под заказ. Проходит сертификацию ATEX.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники, рассчитанные с запасом
4. Двойное меж. уплотнение в масляной камере + сальник С гидравлической стороны: карбид кремния/ карбид кремния Со стороны двигателя: графит/оксид алюминия
5. Одноканальный открытым рабочим колесом
6. Кабель H07RNF
7. Теплозащита серийно в монофазном варианте
8. Конденсатор до
9. Поплавковый выключатель
10. АЕТ-АЕМ пульт управления для трехфазного и монофазного варианта
11. Окошко для контроля масла
12. Контроль герметичности двигателя

1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 2850 rpm/min-1. Voltaje: monofásico 50 Hz 1x230V trifásico 3 x 380/415V 50 Hz
Otros voltajes y frecuencias a demanda.
2. Eje Acero inoxidable AISI 420
3. Cojinetes sobredimensionados lubrificados indefinidamente
4. Doble cierre mecánico en cámara de aceite + retén de nitrilo. Carburo de silicio/Carburo de silicio en el lado agua. Grafito/Acero templado en el lado motor.
5. Impulsor abierto de un canal
6. Cable H07RNF
7. Protector térmico en el bobinado, de rearme automático o manual para motores monofásicos.
8. Espina condensador
9. Interruptor de boya para funcionamiento automático
10. AET-AEM Cuadros eléctricos para motores trifásicos o monofásicos
11. Inspección aceite
12. Control de motor estanco

1. Moteur entièrement submersé étanche à l'eau
Classe d'isolation H. Indice de protection IP 68
Vitesse de rotation : 2850 tr/mn. Bobinage mono : 1x 230V Fréquence : 50 Hz - tri : 3x380/415V Fréquence : 50 Hz Autres tensions et fréquences sur demande.
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile + joint de la garniture. Garniture inférieur: Carbure de silicium/ Carbure de silicium. Garniture supérieure: graphite/alumine
5. Monocanal roue ouverte
6. Cable H07RNF
7. Version monophasée: protection thermique de série
8. Discontacteur avec condensateur
9. Flotteur
10. Coffret électrique de commande AET-AEM pour mono et tri version
11. Inspection de l'huile
12. Contrôle moteur étanche à l'eau

1. Motor totalmente submerso estanque
Isolamentos em classe H. Grau de proteção IP 68
rpm: 2850
Tensão: monofásica e trifásica
1x230V Hz-50 Hz 3x380/415V-50
Outras tensões e frequências a pedido.
2. Eixo em aço AISI 420
3. Chumaceiras sobredimensionados isentes de manutenção
4. Duplo contenção na câmara óleo pi anel de contenção NBR contenção inferior: carboneto de silício contenção superior: grafito/allumina
5. De canal único impulsor aberto
6. Cabo H07RNF
7. Proteção térmica da série versão monofásica
8. Spina capacitores
9. Regulador de nível
10. AET-AEM painel elétrico para versão monofásica e trifásica
11. Inspeção de óleo
12. Controle motor estanque

MA - 4

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURVE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS										PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCE - RENDIMENTO - EXECUÇÃO								
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	V	KG	l/sec m³/h	0	2	3	4	5	6	7
1	MA - CS06 - DT - 4	1	0.6	400	1.9	1450	50	40	50N	29	H	6	4.5	3.9	2.9			
2	MA - CS07 - DT - 4	1.1	0.75	400	2	1450	50	40	50N	30	m	8	6.4	6	5.2	4.4	3.7	2.9

* On request

DIMENSION DRAWINGS

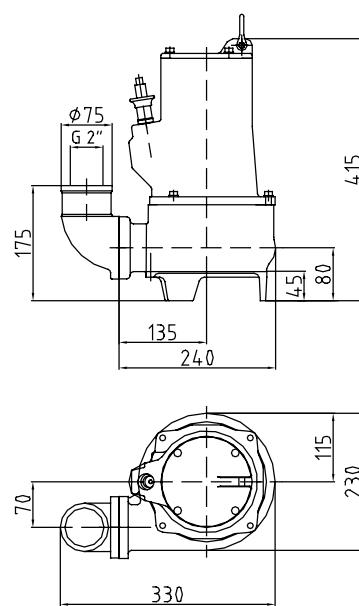
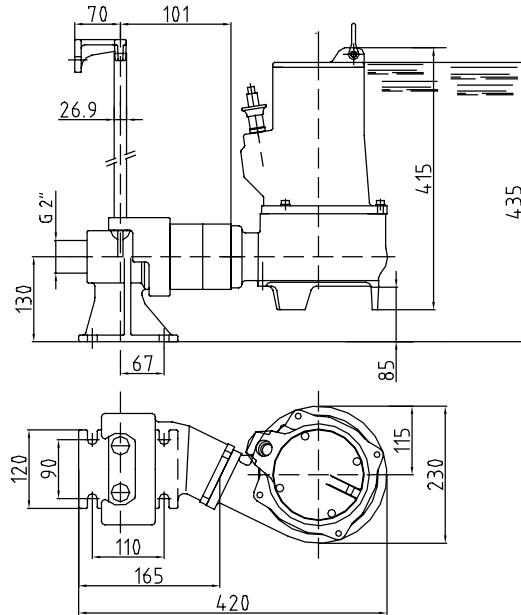
DIMENSIONI D'INGOMBRO

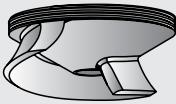
ГАБАРИТНЫЕ ЧЕРТЕЖИ

DIMENSIONS D'ENCOMBREMENT

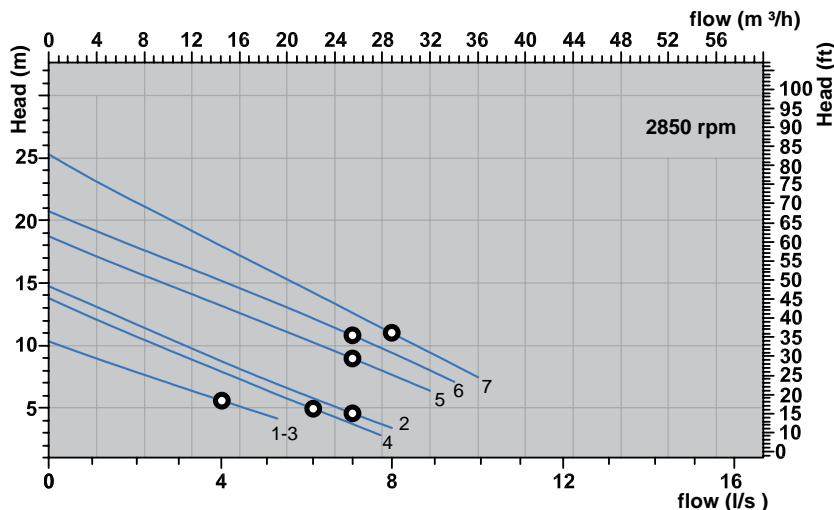
DIMENSIONES TOTALES

DIMENSÕES GLOBAIS





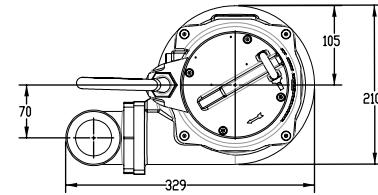
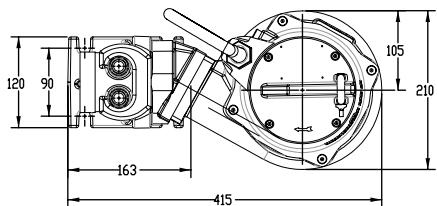
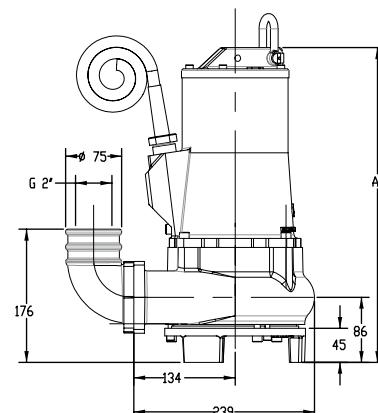
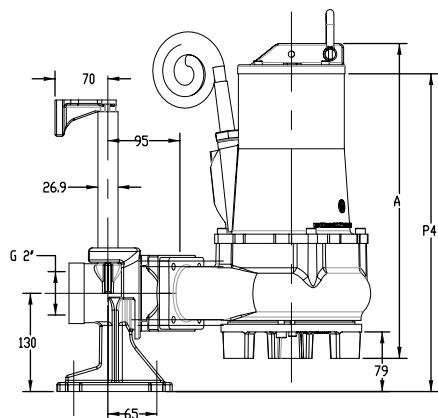
MA

PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
CURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

Nr	Modello - Type	P1 kW	P2 kW	Volt	μ F	Amp	Giri rpm	DN	\varnothing mm	PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO													
										l/sec m^3/h	0	2	3	4	5	6	7	8	10	12	14	16	
1	MA - CS11 - DT - RR	1.6	1.1	230	30	7.5	2850	50	40	H m	34.1	25.6	22.6	19.0	15.4	11.1							
2	MA - CS16 - DT	2.2	1.6	230	40	9		50	40		49.2	43.2	34.1	29.6	23.5	19.8	15.2	11.3					
3	MA - CS11 - DT - R	1.5	1.1	400		2.5		50	40		34.1	25.6	22.6	19.0	15.4	11.1							
4	MA - CS11 - DT	1.5	1.1	400		3		50	40		45.9	35.1	30.2	25.9	21.2	16.8	12.8	8.9					
5	MA - CS18 - DT	2.2	1.85	400		4.5		50	40		62.3	52.5	48.5	43.5	39.4	34.4	29.5	25.6	15.2				
6	MA - CS22 - DT	2.8	2.2	400		5		50	40		68.9	57.5	54.2	50.2	45.2	41.3	35.8	31.6	20.8	9.9			
7	MA - CS26 - DT	3.2	2.6	400		5.8		50	40		83.6	72.2	64.9	59.0	54.5	47.5	41.5	36.5	24.4	12.2			

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ
DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACION - DIMENSOES DE
INSTALAÇÃO

Nr	Modello - Type	A max	P4	V
1	MA - CS11 - DT - RR	416	420	50
2	MA - CS16 - DT	444	447	50
3	MA - CS11 - DT - R	417	421	50
4	MA - CS11 - DT	417	421	50
5	MA - CS18 - DT	417	421	50
6	MA - CS22 - DT	444	447	50
7	MA - CS26 - DT	444	447	50

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBRO
ГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENT
DIMENSIONES TOTALES
DIMENSÕES GLOBAIS



AG Series

Submersible agitators

AG Series

0.8 - 22 kW

Flow

1.5 - 10 m

Agitatori sommersibili

Serie AG

0.8 - 22 kW

Portata

1.5 - 10 m

погружные перемешиватели

Серия AG

0.8 - 22 kW

производительность

1.5 - 10 m

Agitateurs submersibles

Série AG

0.8 - 22 kW

Débit

1.5 - 10 m

Agitadores sumergibles

Modelo AG

0.8 - 22 kW

Caudal

1.5 - 10 m

Agitadores submersíveis

Série AG

0.8 - 22 kW

Capacidade

1.5 - 10 m





Technical features

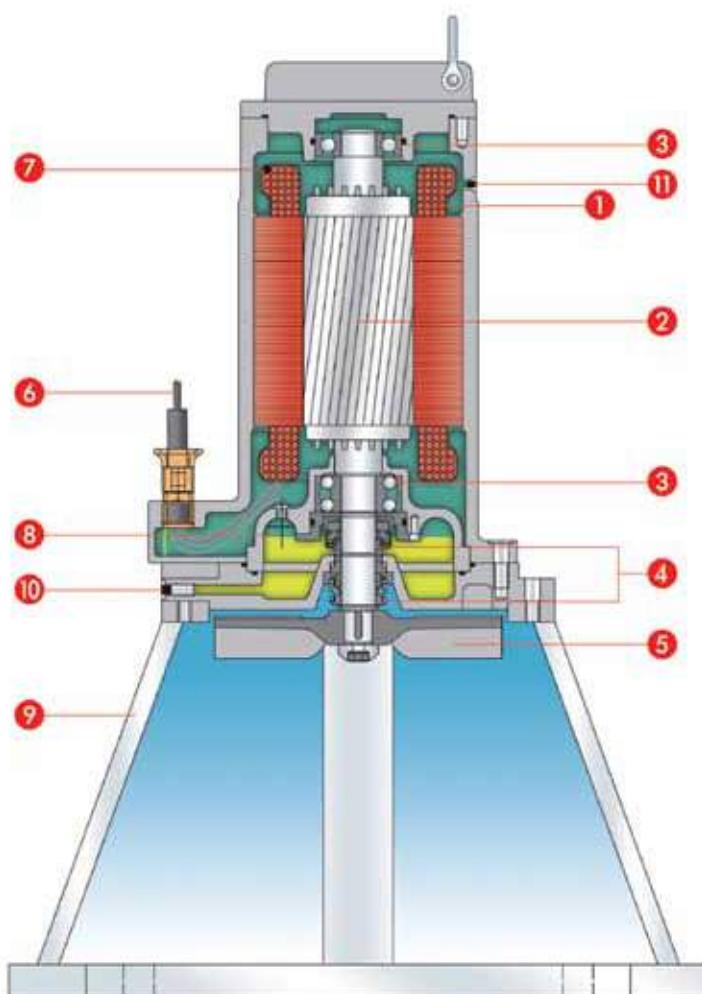
Caratteristiche costruttive

Технические характеристики

Caractéristiques de construction

Características de construcción

Características de construção



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 1450 rpm.
Voltage: Three-phase 3x380/415V-50 Hz.
Different voltage and frequency on request.
2. Shaft in stainless steel AISI 420
3. Heavy duty bearing for long life
4. Double mechanical seal in oil chamber
Water side: silicon carbide/silicon carbide
Motor side: graphite/alumina (curve 1-2) silicon carbide/silicon carbide (curve 3-6)
5. Cast iron vortex impeller with high efficiency
6. Cable H07RNF
7. Thermal protection embedded
8. Oil chamber probe
9. Foot ring
10. Oil inspection plug
11. Hole for the motor water tightness control

1. Motore completamente sommerso a tenuta stagna
Classe di isolamento H. Grado di protezione IP 68
Giri: 1450 al min⁻¹
Voltaggio: monofase trifase 3x380/415V-50 Hz
Altri voltaggi e frequenze a richiesta.
2. Albero in acciaio AISI 420
3. Cuscinetti sovrardimensionati lunga vita
4. Doppia tenuta meccanica in camera d'olio
Tenuta inferiore: carburo di silicio/carburo di silicio
Tenuta superiore: grafite/allumina (curva 1-2)
carburo di silicio/carburo di silicio (curva 3-6)
5. Girante Vortex in ghisa ad alto rendimento
6. Cavo H07RNF
7. Protezione termica incorporata
8. Sonda camera olio
9. Base di appoggio
10. Ispezione olio
11. Controllo tenuta stagna motore

AG Series

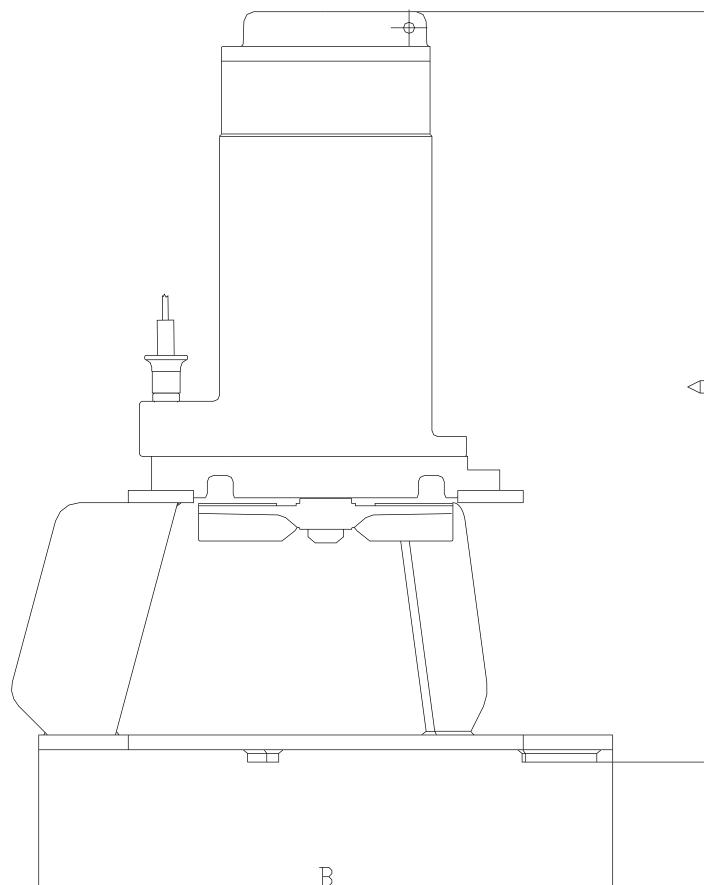


1. Полностью погружной двигатель с герметичным уплотнением. Класс изоляции Н. Класс защиты IP68. Скорость вращения: 1450 об./мин. Напряжение: трехфазное 380/415 В 50 Гц. Прочие напряжения и частота под заказ.
2. Вал из нержавеющей стали AISI 420
3. Долгосрочные подшипники, рассчитанные с запасом
4. Двойное мех. уплотнение в масляной камере. С гидравлической стороны: карбид кремния/ карбид кремния Со стороны двигателя: графит/алюмин (кривая 1-2), карбид кремния/карбид кремния (кривая 3-6)
5. Рабочее колесо вихревого типа из чугуна с высоким КПД
6. Кабель H07RNF
7. Встроенная теплозащита
8. Датчик в масляной камере
9. Опора
10. Окошко для контроля масла
11. Контроль герметичности двигателя

1. Moteur entièrement submersé étanche à l'eau
Classe d'isolation H. indice de protection IP 68
Vitesse de rotation: 1450 tr/mn
Bobinage tri: 3x380/415V
Fréquence: 50 Hz
Autres tensions et fréquences sur demande.
2. Arbre moteur en acier AISI 420
3. Roulements surdimensionnés lubrifiées à vie
4. Double garniture mécanique en chambre huile
Garniture inférieur: Carbure de silicium/Carbure de silicium
Garniture supérieure: graphite/allumine (courbe 1-2) Carbure de silicium/Carbure de silicium (courbe 3-6)
5. Roue vortex en fonte à haute performance
6. Cable H07RNF
7. Protection thermique intégrée dans le bobinage
8. DéTECTeur d'infiltration dans la chambre à huile
9. Base d'appui
10. Inspection de l'huile
11. Contrôle moteur étanche à l'eau

1. Motor completamente sumergido estanco
Clase de aislamiento H. Protección IP-68.
Velocidad: 1450 rpm/min⁻¹
Voltaje: trifásico 3 x 380/415V 50 Hz
Otros voltajes y frecuencias a demanda.
2. Eje Acero inoxidable AISI 420
3. Cojinetes sobredimensionados lubrificados indefinidamente
4. Doble cierre mecánico en cámara de aceite
Carburo de silicio/Carburo de silicio en el lado agua.
Grafito/Acero templado en el lado motor (curva 1-2)
Carburo de silicio/Carburo de silicio (curva 3-6)
5. Impulsor vortex de hierro fundido alta eficiencia
6. Cable H07RNF
7. Protector térmico en el bobinado.,
8. Detector de infiltraciones en la cámara de aceite
9. Base
10. Inspección aceite
11. Control de motor estanco

1. Motor totalmente submerso estanque
Isolamento em classe H. Grau de proteção IP 68
rpmi: 1450
Tensão: 3x380/415V-50 Hz
Outras tensões e frequências a pedido.
2. Eixo em aço AISI 420
3. Chumaceiras sobredimensionados isentes de manutenção
4. Duplo contenção na câmara óleo
Contenção inferior: carboneto de silício
Contenção superior: grafito/allumina (curva 1-2) carboneto de silício (curva 3-6)
5. Giratória a vórtice em ferro fundido alta eficiencia
6. Cabo H07RNF
7. Proteção térmica nas bobinas
8. Detector da infiltração na câmara óleo
9. Base
10. Inspeção de óleo
11. Controle motor estanque



GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ - PERFORMANCES - RENDIMENTO - EXECUÇÃO			
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	µF	Giri rpm	Campo di lavoro Application field (m)	A mm	B mm	KG
A	AG-CV08-M-R	0.9	0.8	230	5	30	2850	1.5	325	300	23
B	AG-CV08 - T	0.9	0.8	400	2.1		2850	1.5	325	300	23
C	AG-CV11-M-R	1.5	1.1	230	7.1	30	2850	2	325	300	18
D	AG-CV11-T	1.4	1.1	400	3.2		2850	2	325	300	18
C	AG-CV08-M-4R	1	0.8	230	4	30	1450	1	375	300	27
E	AG-CV08-T-4	1	0.8	400	2		1450	1.5	375	300	27
F	AG-CV11-T-4	1.5	1.1	400	2.5		1450	2	406	300	28
1	AG-CV15-T-4	2.1	1.5	400	3.6		1450	3	406	465	47
2	AG-CV22-T-4	3	2.2	400	5		1450	4	406	465	39
3	AG-CV35-T-4	4.5	3.5	400	7.7		1450	5	560	465	57
4	AG-CV60-T-4	7.7	6	400 D	13.1		1450	7	670	465	85
5	AG-CV75-T-4	9.3	7.5	400 D	15.1		1450	8	704	465	95
6	AG-CV110-T-4	12.5	11	400 D	18		1450	9	800	510	141
7	AG-CV220-T-4	26.2	22	400 D	46		1450	10	900	850	250

Submersible Mixers

MDP-TPP Series

0.8 - 18.5 kW

Flow

320 - 6702 m³/h

Miscelatori Sommersi

Serie MDP-TPP

0.8 - 18.5 kW

Portata

320 - 6702 m³/h

Погружные перемешиватели

Серия MDP-TPP

0.8 - 18.5 kW

производительность

320 - 6702 m³/h

Mélangeurs submersibles

Série MDP-TPP

0.8 - 18.5 kW

Débit

320 - 6702 m³/h

Mezcladores sumergibles

Modelo MDP-TPP

0.8 - 18.5 kW

Caudal

320 - 6702 m³/h



Misturadores submersíveis

Série MDP-TPP

0.8 - 18.5 kW

Capacidade

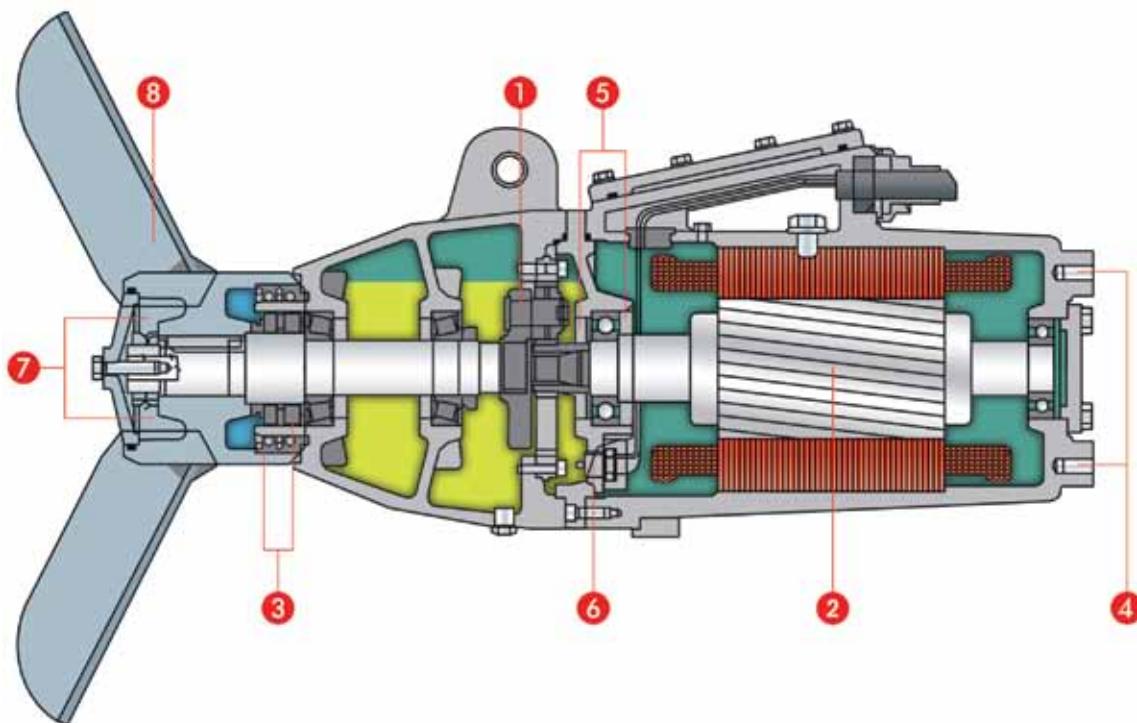
320 - 6702 m³/h



Caratteristiche costruttive
Technical features

Технические характеристики
Caractéristiques de construction

Características de construcción
Características de construção



1. Long-life planetary transmission in big-volume oil chamber with inspection screw
2. Pressure tight sealed motor. IP68 protection class H (180 °C) with thermal sensors embedded in the motor winding for motor temperature monitoring.
Optional: explosion proof according to ATEX Ex II 2 GExd
3. 2 grooved ball bearings for motor shaft
2 roller bearings in oil chamber for propeller shaft (only for series TP)
4. Galvanic separation of motor housing and motor bracket prevents galvanic corrosion
5. Shaft seal motor housing: lip seal protection with mechanical seal
6. Moisture probe in oil chamber with electrode device
7. Propeller shaft seals.
Two level sealing system for optimum protection:
- 2 lip seals in the propeller hub rotate
- silicon carbide mechanical seal on propeller shaft.
Provides optimal protection against seeping fluid
8. Hydraulically optimized self-cleaning propeller from 1.4306 stainless steel

1. Trasmissione planetaria lunga vita in camera olio sovradi-
mensionata con viti di ispezione
2. Motore con tenuta a pressione. Classe di isolamento H (180 °C). Grado di protezione IP 68. Sensori termici nell'avvolgimento per monitoraggio della temperatura.
Optional: motori antideflagranti secondo normativa ATEX Ex II 2 GExd
3. 2 cuscinetti a rulli per albero motore
2 cuscinetti a rullo in camera olio per albero elica (solo per serie TP)
4. Separazione galvanica tra il corpo motore e il supporto per prevenire la corrosione galvanica
5. Doppio tenuta meccanica con para-olio di protezione sull'albero motore
6. Sonda umidità in camera olio con elettrodo
7. Doppio sistema di tenuta per massima protezione sull'albero elica:
- 2 paraolio nell'elica corona ruotabile per sostituire l'anello di usura
- tenuta meccanica in carburo di silicio sull'albero elica.
Ottima protezione contro l'infiltrazione di liquidi
8. Elica auto-pulente (idraulicamente) in acciaio inossidabile 1.4306

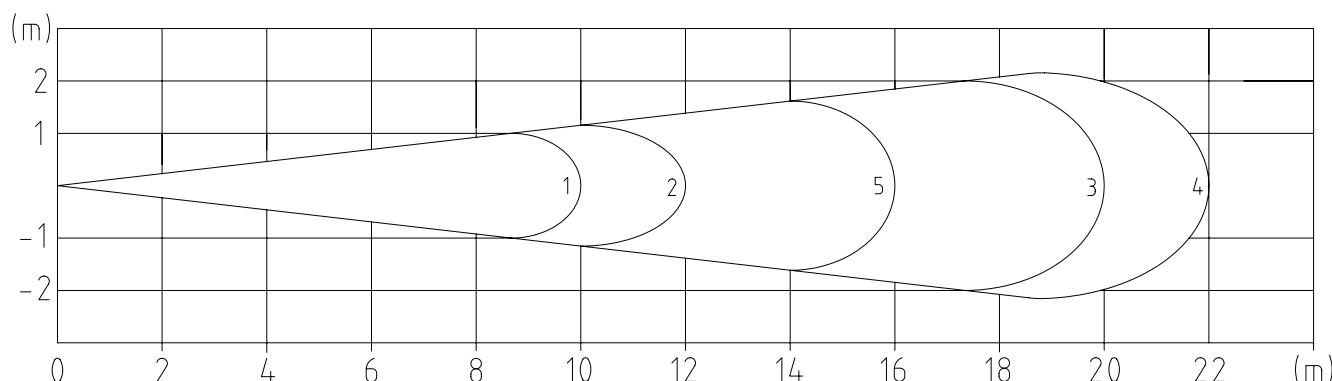


1. Долгосрочная планетарная передача в масляной камере, рассчитанная с запасом с винтами для осмотра
2. Двигатель с прижимным уплотнением. Класс изоляции Н (180°C). Класс защиты IP68. Термовые датчики в обмотке для контроля температуры. Опции: взрывозащищенные двигатели по стандарту ATEX Ex II 2 GEExd.
3. 2 роликоподшипника для вала двигателя
2 роликоподшипника в масляной камере для вала винта (только для серии TP)
4. Гальваническое разделение между корпусом двигателя и опорой для предотвращения гальванической коррозии
5. Двойное мех. уплотнение с сальником на валу двигателя
6. Датчик влажности в масляной камере с электродом
7. Двойная система уплотнения для лучшей защиты на валу винта:
2 сальника в винте венец поворотный для замены расходного кольца
мех. уплотнение из карбида кремния на валу винта.
Надежная защита от попадания жидкостей.
8. Самоочищающийся (гидравлически) винт из нержавеющей стали 1.4306

1. Transmission planétaire longue vie in camera huile avec des viti d'inspection
2. Moteur avec tenue à pression. Classe d'isolation H (180 °C). Indice de protection IP 68
Capteurs thermiques dans l'enroulement pour monitorage de la température. Option: moteurs antidiéflagrants selon normative ATEX Ex II 2 GEExd
3. 2 roulements à rouleaux pour l'arbre
2 roulements à rouleaux en chambre huile pour arbre hélice (seulement pour série TP)
4. Séparation galvanique parmi le corps moteur et le soutiente pour prévenir la corrosion galvanique
5. Double garniture mécanique + joint de la garniture sur l'arbre moteur
6. Sonde humidité en chambre huile avec électrode
7. Double étanchéité système pour une protection maximale sur l'arbre hélice
- 2 joint dans l'hélice pour substitution anneau usure
- garniture mécanique en carbure de silicium sur l'arbre hélice
Excellent protection contre l'infiltration de liquides
8. Hélice autonettoyante (hydrauliquement) en acier inoxydable 1.4306

-
1. Emisión planetaria larga vida in camera óleo con vides de inspección
 2. Motor con capacidad a presión. Clase de aislamiento H (180 °C). Protección IP-68. Sensores térmicos el bobinado para monitoreo de la temperatura Opcional: Motor segunda prueba de explosión ATEX Ex II 2 GEExd
 3. 2 cojinetes rodillos para eje motor
2 cojinetes rodillos en la cámara de aceite para eje hélice para serie TP (solamente)
 4. Aislamiento galvánico entre el cuerpo motor y del soporte para evitar la corrosión galvánica
 5. Doble cierre mecánico + retén de nitrilo sobre el eje motor
 6. Sensor de humedad en la cámara de aceite con
 7. Doble sistema de sellado para protección máxima del eje propulsor:
- 2 anillo de sellado en propulsor para sustituir el anillo de desgaste
- cierre mecánico en carburo de silicio sobre eje de hélice
Protección óptima contra la infiltración de líquido
 8. Propulsor auto-limpieza (hidráulicamente) en acero inoxidable 1.4306

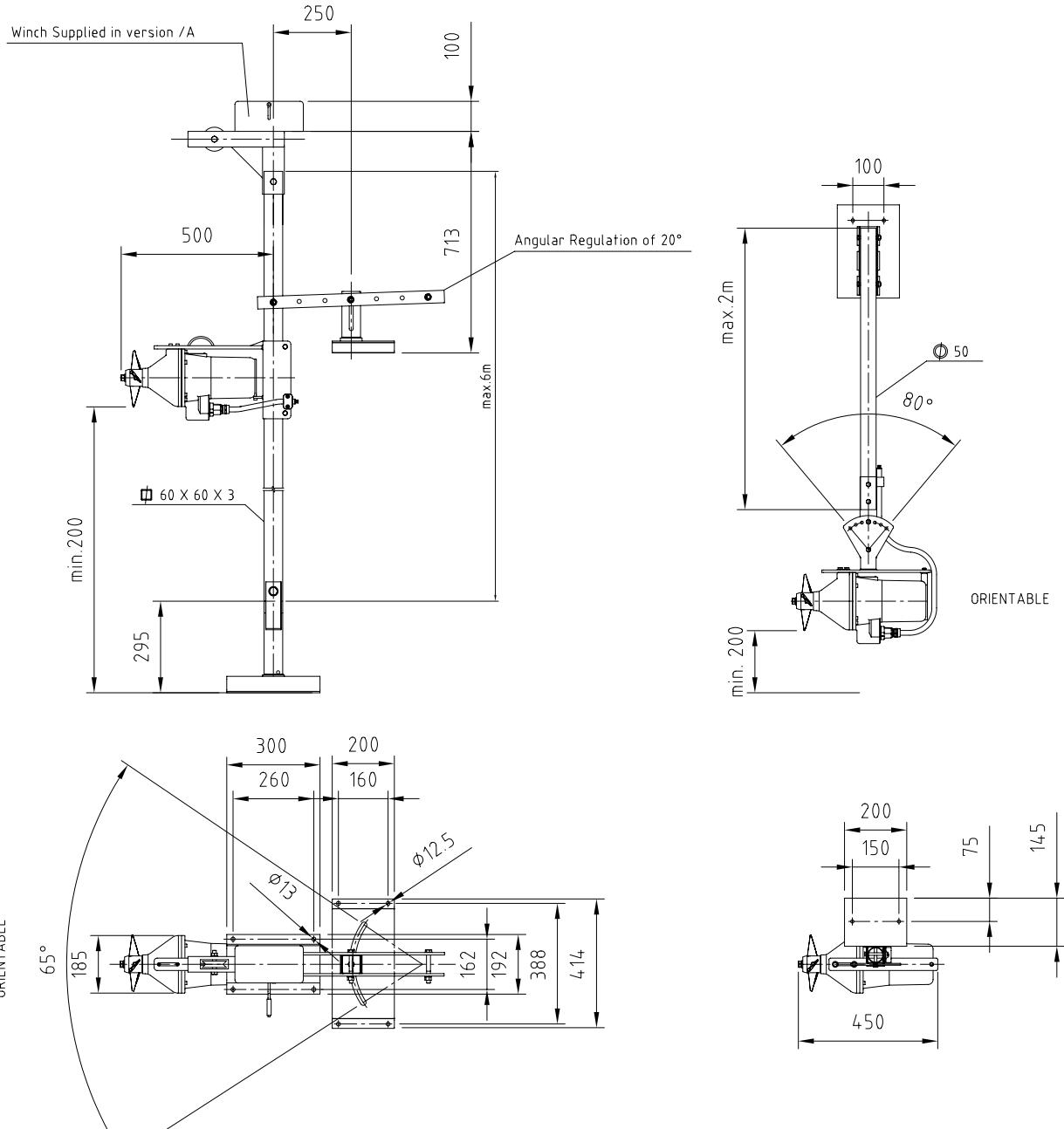
-
1. Emissão planetária vida longa in camera óleo com vides da inspeção
 2. Motor com capacidade à pressão. Isolamentos em classe H (180 °C). Grau de proteção IP 68 Sensors térmicos no envolvimento para o controlo da temperatura Opcional: motor segunda à prova de explosão ATEX Ex II 2 GEExd
- 2 chumaceira a rolos para eixo motor
- 2 chumaceira a rolos na câmara óleo para eixo hélice (somente para série TP)
 3. Separação galvânica entre a carcaça do motor e de apoio para prevenir a corrosão galvânica
 4. Duplo contenção pi anel de contenção NBR em eixo motor
 5. Sensor de umidade na câmara de óleo com eletrodo
 7. Duplo sistema de contenção para máxima proteção de eixo hélice:
- 2 anel de contenção em hélice nell'elica corona ruotabile para substituir o anel de desgaste
- contenção em carboneto de silício em eixo hélice.
Excelente protecção contra a penetração de líquidos
 8. Hélice ligeza automática (idraulicamente) em aço inoxidável 1.4306

**Series mDp mixers with direct transmission****Serie mDp miscelatori a trasmissione diretta****Серия МДР Перемешиватели с прямой передачей****Série mDp Agitateurs agitateurs à entraînement direct****Serie mDp agitadores a emisión directa****Série mDp Agitadores Agitadores em transmissão directa**PERFORMANCE CURVES
CURVE DI PRESTAZIONEХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
COURBE CARACTÉRISTIQUECURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO	
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	Pale - Blades	Spinta assiale - Axial force N	Portata - Flow m³/h
1	MD - RP08 - T - 4	1.1	0.8	400	2.8	1450	3	152	320
2	MD - RP12 - T - 4	1.7	1.2	400	3.6	1450	3	210	372
3	MD - RP26 - T - 4	3.4	2.6	400	6.2	1450	2	404	1275
4	MD - RP34 - T - 4	4.3	3.4	400	7.6	1450	2	912	1558
5	MD - RP21 - T - 6*	3.1	2.1	400	5.7	960	2	206	590

* On Request

MD

DIMENSION DRAWINGS
DIMENSIONI D'INGOMBROГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS



Series Tpp Mixers with planetary transmission in oil chamber

Serie Tpp Miscelatori con riduttore di tipo planetario in camera d'olio

Серия TPP Перемешиватели с планетарным редуктором в масляной камере

Série Tpp Mélangeurs avec reducteur de type planétaire in camera d'huile

Serie Tpp Mezcladores con reductor de tipo planetario in cámara óleo

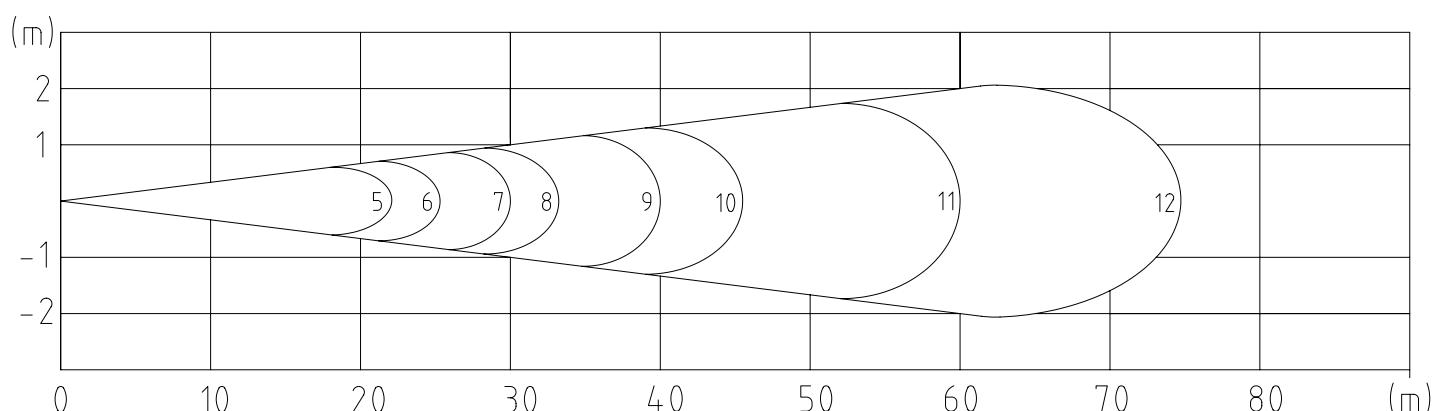
Série Tpp Agitadores Agitadores em transmissão direta



PERFORMANCE CURVES
CURVE DI PRESTAZIONE

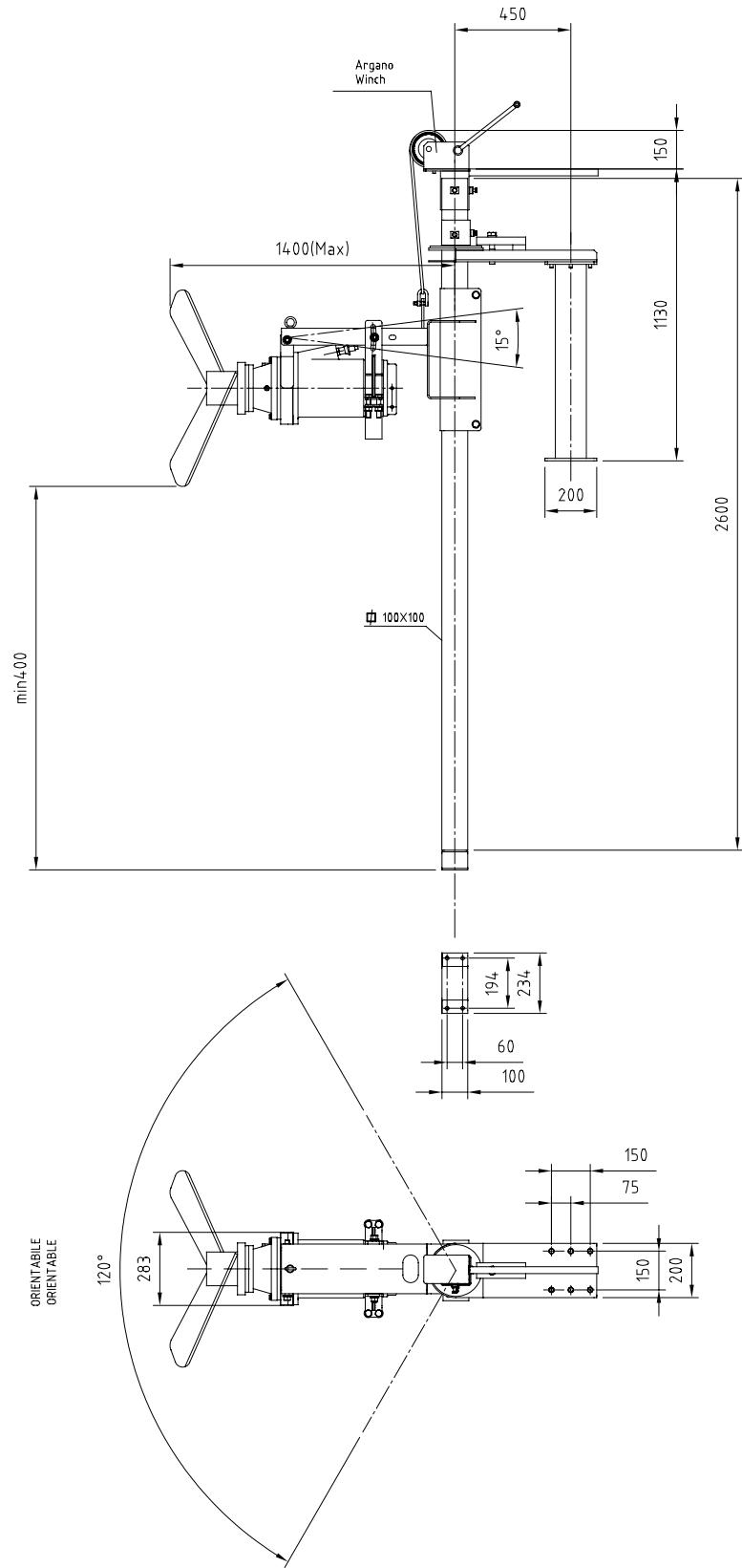
ХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
COURBE CARACTÉRISTIQUE

CURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA



GENERAL FEATURES - CARATTERISTICHE GENERALI - ОСНОВНЫЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICA GERAIS								PERFORMANCES - PRESTAZIONI - РАБОЧИЕ ПАРАМЕТРЫ PERFORMANCES - RENDIMENTO - EXECUÇÃO	
Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	Pale - Blades	Spinta assiale - Axial force N	Portata - Flow m³/h
5	TP - RP30 - T - 4	3.5	3	400	7,2	250	3	498	1462
6	TP - RP40 - T - 4	4.7	4	400	7,5	250	3	742	2000
7	TP - RP55 - T - 4	6.4	5.5	400	10,8	250	3	800	2162
8	TP - RP75 - T - 4	8.7	7.5	400	15,6	250	3	1131	2821
9	TP - RP90 - T - 4	10.1	9	400	18	200	3	1265	3013
10	TP - RP110 - T - 4	12.5	11	400	23	200	3	1475	3286
11	TP - RP150 - T - 4	16.7	15	400	30	200	3	2859	5489
12	TP - RP185 - T - 4	21	18.5	400	36	200	3	3725	6702

TP

DIMENSIONI D'INGOMBRO
DIMENSION DRAWINGSГАБАРИТНЫЕ ЧЕРТЕЖИ
DIMENSIONS D'ENCOMBREMENTDIMENSIONES TOTALES
DIMENSÕES GLOBAIS



Submersible pumps - Heavy Duty Non clog Series

SAN Series

2.2 - 800 kW

Discharge

DN 50 - DN 800

Elettropompe sommergibili

Serie SAN

2.2 - 800 kW

Mandata

DN 50 - DN 800

Погружные электронасосы

Серия SAN

2.2 - 800 kW

выходное отверстие

DN 50 - DN 800

Electropompes submersibles

Série SAN

2.2 - 800 kW

Diam. refoulement

DN 50 - DN 800

Bombas sumergibles

Modelo SAN

2.2 - 800 kW

Diámetro impulsión

DN 50 - DN 800

Bombas eléctricas submersíveis

Série SAN

2.2 - 800 kW

Diâmetro boca

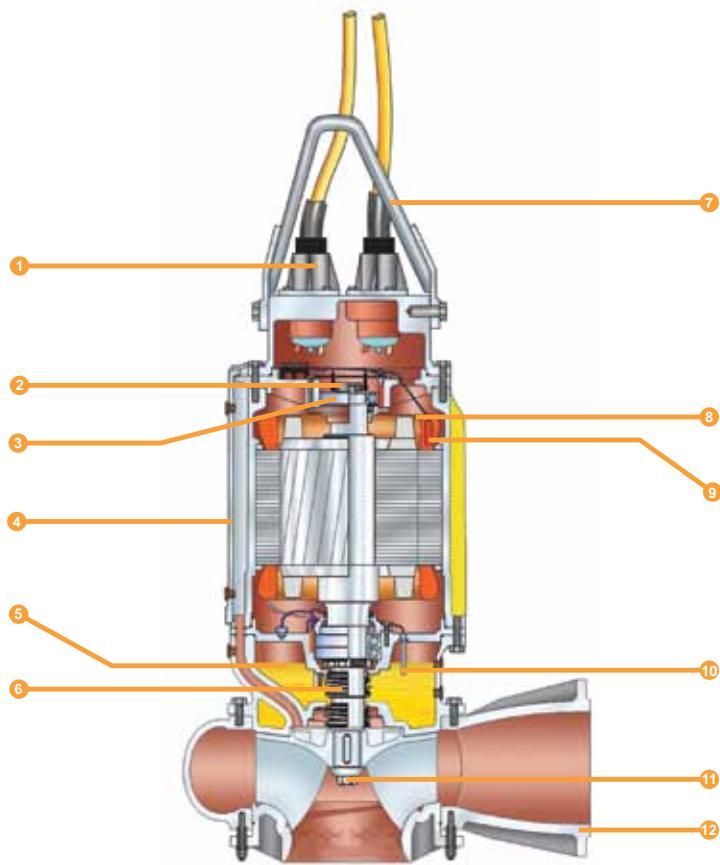
DN 50 - DN 800

SAN Series

Technical features Caratteristiche costruttive

Технические характеристики Caractéristiques de construction

Características de construcción Características de construção



1. Cable Gland Is specially designed to prevent moisture ingress (into the motor windings via capacity action) even in case of cable's protective outer sheath puncture.
2. Inbuild Electro Mechanical Reverse Rotation Sensor detects accidental reverse rotation & gives alarm to cut off power.
3. Heavy duty bearings are designed for L10 life, factory filled with life long grease abviating the need of subsequent regreasing. Dry run fail resistant due to the use of high temperature characteristics of the grease used & increased internal clearance class. Bearing overheat detectors can be supplied on request.
4. Motor Cooling is effected by liquid submergence for submerged wet pit application (where minimum water level is above the motor level). However should the minimum water level desired to be kept low; Special Open Circuit Jacket Cooled motor are offered (which utilize pumped media to cool the motor via the intergral jacket)
5. Oil chamber Large volume Oil bath effectively lubricates & cools both the mechanical seals enabling longer safe dry running period.
6. Two, independent mechanical Shaft seals allow a longer useful life even in case of failure of one seal. Both the seals are bidirectional permitting safe reverse rotation incase of accidental reverse rotation or intentional pipeline back-flow (to flush out bottom sedimentation at suction side). The primary seal is of Silicon Carbide faces while all "O" rings are of FKM for enhanced dry fail safe characteristics.

7. Safe centering lifting hook enables the pump to be "finished out" in the event of chain breakage (without the need of the operator going down to the sump floor)
8. Motor is similar to dry type induction Motor, The only difference being the degree of protection (it is IP68 enclosures - to ensure Hermetic Sealing even under water immersion). The insulation is of class "F" (LT motors can also be offered with class "H") yet the Design Temperature Rise is restricted to class "B" allowing excellent resistance to insulation failures. All motors have Vacuum Pressure Impregnated windings and Larger motors can be offered with higher efficiency Copper Bar Rotors resulting in a Lower Rotor Temperature hence increased Bearing & Mechanical seal life.
9. Motor Thermal Overload protection Bi-Metallic switches are embedded into each phase of winding to detect accidental overheating & thereby trip off the power. Optionally Thermistors or PT 100 transducers can also be offered.
10. Seal condition Monitoring, standard fitted, in the event of primary seal leakage the same is detected by the inbuilt moisture sensor & displayed in the control panel. Optionally moisture detectors in motor can also be provided.
11. Shaft is always made from rust free stainless steel & designed without any sleeves for long maintenance free life.
12. CADesigned Casing withstands impacts (During handling especially with portable emergency duties). Full in volute profile (As opposed to simple concentric design) increases pump efficiency. For de-water/Brackish application. Epoxy coated with or without Sacrificial Zinc Anode can be provided.

SAN SERIES OF HEAVY DUTY NON CLOG SEWAGE SUBMERSIBLE PUMPS

SAN pumps are specifically designed (as an upgrade over the 1st generation of submersible non clog pumps) to withstand the harsh operating condition (encountered in sewage pumping) in developing countries.



unique advantages of SaN Series pumps

- VFD compatible inverter duty motors.
- Tolerates wide Electrical Supply Fluctuations.
- Low maintenance requirement.
- Pumps factory tested on fully scale Test Bed equipped with VFD upto 1180kW.
- Wide range of Hydraulic designs allow Clogless handling of sewage at optimal efficiency.
- High pump efficiency is sustainable over longer periods due to Smart Set hydraulics.

impellerS

Advanced CADdesigned impellers are optimized for raw unscreened sewage - they can handle large solids as well as fibrous wastes (which generally plait up & clog up conventional non clog impellers). To obviate the leakage losses (due to erosion of wear rings). C.R.I. Pumps don't have any soft metal wearing rings / bushes. Restoration of the pump's efficiency is simple, easy & quick ensuring energy conservation.

Selection :

Vortex impellers are preferred for small pumps operating in heavily solid laden unscreened sewage or gassy crude sludge.

Semi Open, Single / Double Channel type impellers are preferred for medium sized pumps operating in unscreened sewage;

Fully Enclosed Double / Triple Channel impellers can be fitted on large pumps for screened sewage, storm water, industrial waste water & effluents with lower fibrous waste content.



**Semi Open impeller
Single Channel type**



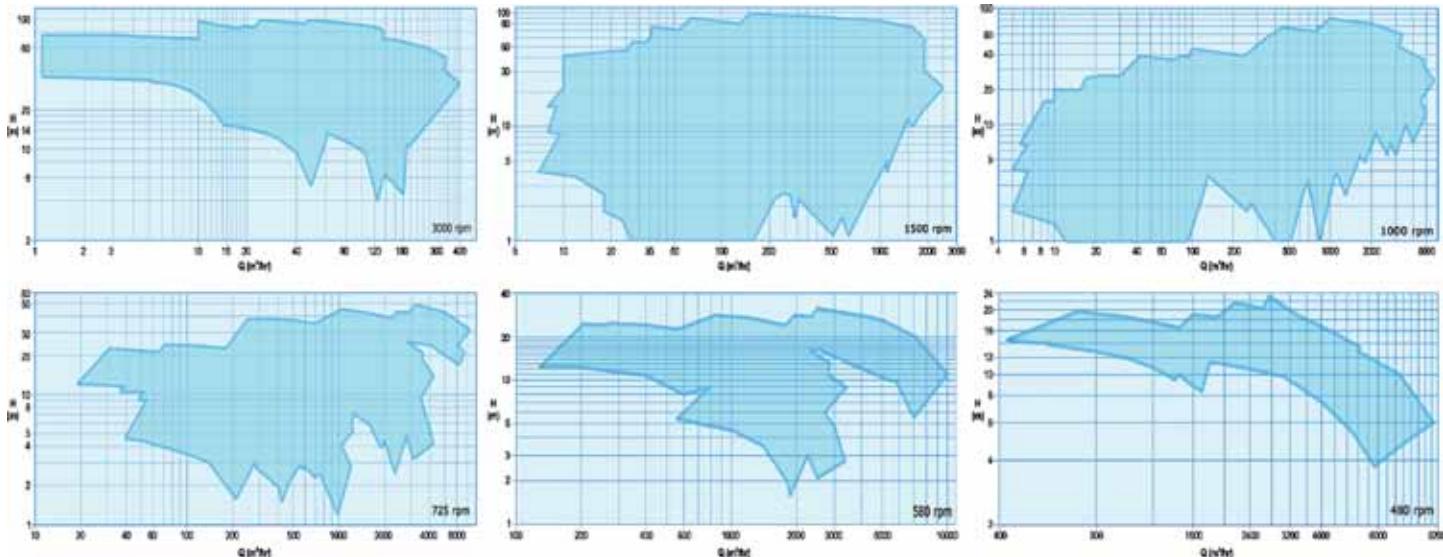
Vortex impeller

SAN Series

PERFORMANCE CURVES
CURVE DI PRESTAZIONE

ХАРАКТЕРИСТИЧЕСКИЕ КРИВЫЕ
COURBE CARACTÉRISTIQUE

CURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA



STANDARD TECHNICAL DATA

Pump Discharge Size		DN50 to 800 MM
Ambient Temperature		Standard : Upto 50°C (Options for 60°C and 70°C available)
Motor	Ratings	2.2 kW to 800 kW
	Speed	3000, 1500, 1000, 750, 600, 500, 375 rpm
	Duty & Enclosure	S1 & exceeds the stands laid down under IP68
	Supply options	415V, 690V, 3300V, 6600V
Protection systems	Cable connection Chamber Water Leakage Detector	By built in moisture detection system (>75 kW)
	Reverse rotation protection	By built in rotation detection mechanism (>25 kW)
	Upper bearing Temperature Detector	By BiMetallic switches (>30 kW) (options of PTCT / PT 100 available)
	Winding thermal overload Protection	By BiMetallic Switches: Options of PTCT / PT 100 Available)
	Stator body water Leakage detector	By build in moisture detection system (> 25 kW)
	Lower Bearing temperature Detection	By BiMetallic Switches (>30 kW) (Options of PTCT / PT 100 available)
	Upper seal leakage detector	By built in moisture detection system (> 250 kW)
	Lower Seal leakage Detector	By built in moisture detection system

STANDARD MATERIAL OF CONSTRUCTION

	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6
Pump Casing	Ni Cast Iron	Spheroidal Cast Iron	Stainless Steel	Ni Resist	High Chrome Cast Iron	All Bronze
Impeller & Suction Cover						
Shaft			Stainless Steel			
Motor Casing & Other Parts			Grey Cast Iron / Copper			
Motor Squirrel Cage Rotor			Aluminium / Copper			
Motor Jacket Casing			Galvanised Mild Steel / Stainless Steel			
Cables			PVC insulated double Sheathed / EPRS insulated double Sheathed			
Mechanical Shaft Seals	Secondary (Upper)		Carbon (B) v/s Cast Chrome Molybdenum Steel (S) with Viton (FKW) elastomers (upto 225kW ; Carbon v/s SSiC (>225 kW)			
	Primary (Lower)		Silicon Carbide (SSiC) v/s SSiC with Nitrile (NBR)			
Fasteners			MS Galvanised with Coating / Stainless Steel			
Oil			Eco Friendly paraffin white oil to ISO VG 15			

OPTIONS

Jacket Cooled motors (Option of glycol Cooling is also available)	Anti Erosion Coatings
Dual Cage Copper bars Rotors & Class "H" insulation for smaller motors as well	

INSTALLATION

permanent Wet pit installation

This represents the cheapest & most user friendly pumping station design. The pump is installed directly at the bottom of the wet pit using C.R.I automatic coupling system. This system ensures that the pump is properly lowered & firmly connected to the discharge piping or lifted out (disengaged from line) in a simple, precise & quick way. This system includes guide rails (which guide the pump correctly downwards) till its discharge flange matches that of the auto coupling pedestal. The contacting surfaces are well machined & designed such that the weight of the pump & wedge design of Autocoupling ensure a leak free joint. The pump is kept in place by its own weight - there is no need for any fasteners to clamp it to delivery piping. Removing the pump for maintenance is equally simple - just pull it up; there are no bolts to be dismantled. The operator need not enter the septic sump once the automatic coupling system is fitted.

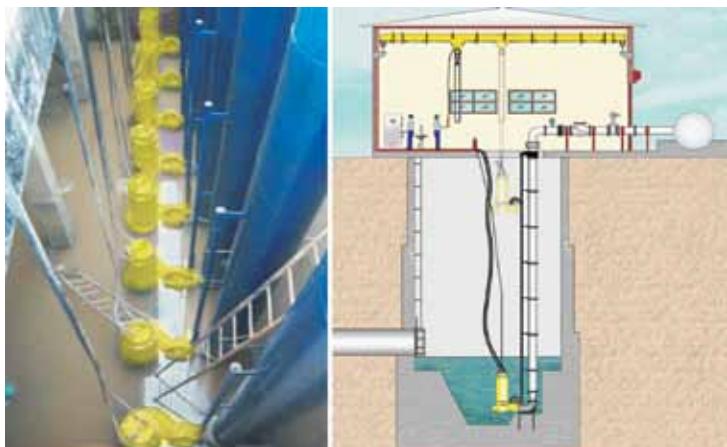
minimum liquid level

If site conditions dictate minimal depth of excavation & hence a higher sump bottom level; Jacket cooled motors can be (optionally) offered allowing the pumping to almost the casing level of the pump. C.R.I's wet pit jacket cooling system is field proven to be clog resistant in real sewerage condition . It uses the pumped media to dissipate motor heat & hence does not require any additional coolant / impellers.

C.R.I. offer an option of close circuited jacket cooling systems (utilizing special coolant & internal circulation impeller) for cases where the pumped liquid is very corrosive or very thick.

Submerged portable Vertical installation

Certain applications like sewer pipe line construction / maintenance works, salvaging flooded dry pits in pumping stations, replacing aged dry installed pumps by mounting the SAN Heavy duty pump directly in the wet pit, drainage of open sewer drains; require submersible pumps to be installed on transportable portable stands. SAN Heavy Duty Pumps can be factory fitted with portable skirt base stands enabling quick & versatile installation they can be fitted either Vertically or Horizontally.



SAS SAD Series

Submersible pumps

SAS, SAD Series

3.7 - 340 kW

Discharge

DN 50 - DN 600 MM

Elettropompe sommergibili

Serie SAS, SAD

3.7 - 340 kW

Mandata

DN 50 - DN 600 MM

Погружные электронасосы

Серия SAS, SAD

3.7 - 340 kW

выходное отверстие

DN 50 - DN 600 MM

Electropompes submersibles

Série SAS, SAD

3.7 - 340 kW

Diam. refoulement

DN 50 - DN 600 MM

Bombas sumergibles

Modelo SAS, SAD

3.7 - 340 kW

Diámetro impulsión

DN 50 - DN 600 MM

Bombas eléctricas submersíveis

Série SAS, SAD

3.7 - 340 kW

Diâmetro boca

DN 50 - DN 600 MM





SAD – SERIES DREDGING SUBMERSIBLE PUMPSETS

SAS – SERIES SLUDGE & SLURRY SUBMERSIBLE PUMPSETS

SaD : Rugged, non clog submersible pumpset with integral Agitator for Hydraulic Dredging

SaS : Rugged, non clog, submersible portable pumpset for pumping of heavily concentrated slurries or highly viscous sludge

appliCaTiONS

- marine** : Capital / Maintenance Dredging at Docks, Harbours, Jetties, Channels, Tidal gates, Estuaries, etc. Dewatering of Dry Docks.
- Water Bodies** : Maintenance Dredging to increase / restore capacity of Dams, Check dams, Weirs, Rivers, Lakes, Reservoirs. Desilting raw water intakes of pumps/turbines, etc.
- Construction** : Dewatering cum dredging of ballast from Coffer Dams/Caissons prior to concreting; to excavate or mine aggregate, gravel or sand; Land reclamation; to bury or retrieve channels for Pipeline/Cable laying; drainage of seepage/leakage water from Tunnels; etc.
- mining** : Drainage, fines reclamation, Lagoon cleanup, tailings removal, etc.
- industry** : To pump Abrasive slurries / Viscous sludges in Thermal Power stations, Stone processing unites, Sewage / Effluent treatment plants, Steel plants, etc.

These pumpsets represent the most cost effective solution of transporting solids (firstly by suspending solids in fluid & then pumping them through pipe lines to desired location). As compared to conventional non submersible pumps (which suck liquid via suction pipe thereby failing to lift the denser solids), these submersible pumps (located in the solids) forcefully push solids resulting in higher solid discharge.

SaD series pumps offer a substantially cheaper alternative for many light to medium duty dredging applications by obviating the need of full fledged dredgers.

aDVANTaGeS

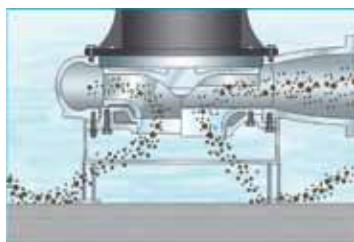
- Approved by Indian Defence Ministry
- Available upto 450hp & 24" discharge size
- Flooded suction eliminates NPSH problems
- Zero Maintenance & Non clogging
- Heavy duty wear resistance design
- Quick & easy installation in any direction
- Compact, robust & versatile
- Dwaters as well as Desilts/Dredges
- Prevents sedimentation



SAS SAD Series

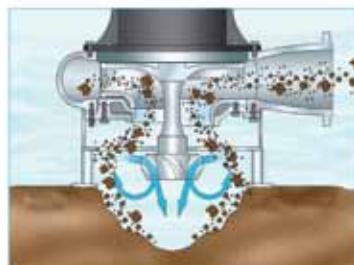


OPERATIONAL MECHANICS



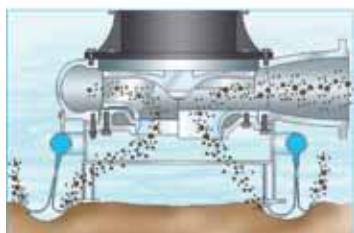
SaS SerieS (SluDGe & Slurry SuBmerSiBle pumpSeT)

The wide passage & liberal clearance hydraulics ensure non clog & shear resistant pumpage of slurries with fine grain solids (primary treated effluent, fly ash setting tank, stone processing units, etc.)



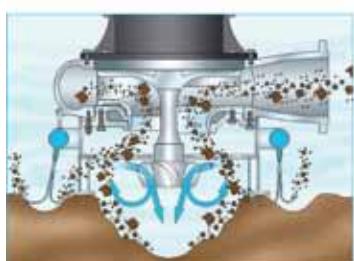
SaD SerieS (DreDGiNG SuBmerSiBle pumpSeTS)

Built in an agitator forces high –energy vortices onto the bottom, stirring & churning up sedimented material below the pump's suction. This Effect in tandem with the resultant pressure of agitator , thoroughly mixes & Homogenizes the stirred up material, which is then sucked by the Pump. Especially useful for bulk pumage of slurries with fast setting Fine to coarse solids (dredging , etc)



SaS SerieS WiTH JeTTiNG riNG (SluDGe & Slurry SuBmerSiBle pumpSeTS)

The optional jetting ring has multiple nozzles which spray pressurized Water onto the bottom thereby suspending settled solids . Especially Useful for pumpage off slurries with fast setting , fine grain solids (primary treated effluent, fly ash setting tank , stone processing Units,)



SaD SerieS WiTH JeTTiNG riNG (DreDGiNG SuBmerSiBle pumpSeTS)

Built in agitator & optional Jetting ring working in tandem for bulk Pumpage of medium & Coarse solids in thick & viscous sludge.



SaS SerieS WiTH JeTTiNG riNG (SluDGe & Slurry SuBmerSiBle pumpSeT)

The multiple nozzles of the optional jetting ring inject pressurized Water in to the pasty sludge thereby thinning it down to a pumpable Viscosity.

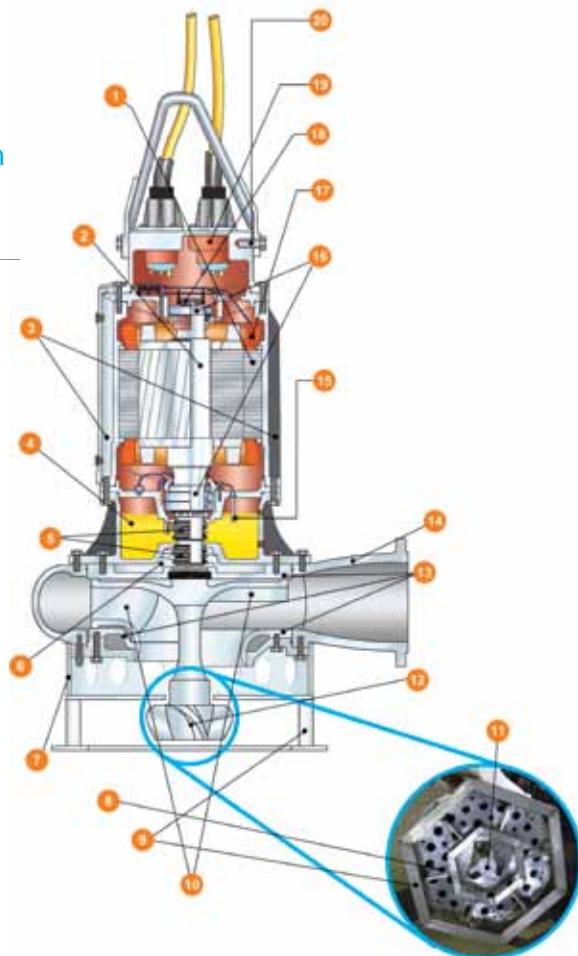
Especially useful for pumage of very viscous sludge (Sewage , Effluent Sludge, etc.,)



Technical features

Caratteristiche costruttive

Технические характеристики
Caractéristiques de construction
Características de construcción
Características de construção

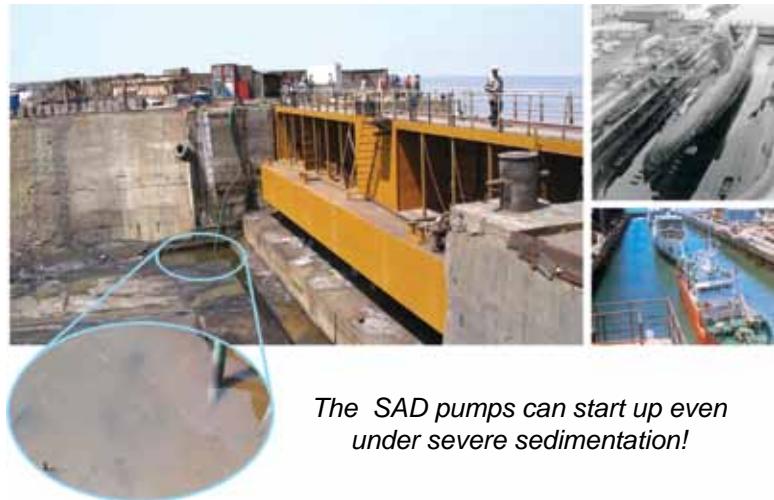


1. Rugged Motor : Heavy duty . Class "F" Insulated (withstands upto 155° C max Winding temp. Class "H" optionally available To withstand 180° C) . High starting torque & Generous services factor (1.25 for ASS & 1.7 For ADS) allow stall free Star Delta / ATS Starting even if pump is fully buried under Sedimented solids . Adapts well to real life Indian supply conditions (poor & unbalanced Voltage) better than imported counterparts.
2. Shaft : Rigid & deflection proof . Oversized To take shock loads from rocks , etc . Corrosion Resistant stainless steel , has no wearing Sleeves for a maintenance free long life
3. Motor Cooling : By media Submergence . For amphibious Applications (where submergence May or may not be possible) an Optional cooling jacket can be Provided.
4. Oil Chamber : Lubricates & Cools both the mechanical seals Ensuring that seals can endure Temporary dry running . Also acts As a collection sump for leakage seal & secondary seal
5. Mechanical Seals : Two Independent . bi directional Rotation seals ensure good Sealing . The primary seal is of Silicon Carbide faces for superb Erosion resistance in abrasive Media.
6. Stuffing Box : Hybrid, Multistage design. The synergistic effect of multiple mechanisms of The stuffing box maintains Low pressure , minimum Swirl & very low solids Near the seal thereby Minimizing erosive seal Wear.
7. Strainer : (For SAD ONLY) – Large solids which would foul the pump – pipe system are screened out By the strainer screen . Long service life due to Thick walled SS construction
8. Stand : Large base Stainless Steel Stand Ensure secure topple free base even on unleveled Fluid beds
9. Impeller : Non Clog . handles solids upto 125mm. CAD design ensure high efficiency, Minimum eddy losses & thus low erosion . Design (Enclosed / Semi Open OR Vortex) & Material selected to be compatible with hardness, sedimentation rate, solid size, specific Gravity & corrosiveness of the media . Keyed onto shaft. No close
- running hydraulic joints plus A high torque motor mean no clogging even after extended periods of stoppage under silt.
10. Agitator : (Only in SAD) Abrasion resistant, heavy duty CAD Designed agitator forces a stream of water to the bottom thereby stirring up the sedimented solids into suspension, which are then sucked up by the pump. Agitator helps Pump upto 80% solids by weight . Is fool proofed against opening up in case of reverse motor rotation.
11. Wear Plates : Abrasion resistant, Generous thickness for extra life in erosive media Replaceable.
12. Wear resistant Pump Casing : Long life due to the CAD designed smooth contoured geometry thereby reducing internal eddies & erosive wear. Extra thick sections at known points of wear. Optional coatings available to enhance wear/corrosion/erosion.
13. Seal Condition Monitoring : (Optional) Moisture leaked into the oil chamber from the primary Between the primary seal is sensed & displayed in the control panel Back up Seal ensures that the pump can still be run for some time before the primary seal is serviced
14. Long bearing life : Maintenance free, greased for life, heavy duty ball/roller bearing with L10 life. Apart from ideal lubrication conditions (moisture free environment thanks to superior shaft sealing), the use of 3 or 4 oversized bearings (instead of 3 to 5 Undersized bearings) eliminates redundancy of loading & cross location,hence there is no chance of premature failure
15. Motor Protection : Thermal overload protection protects the windings against burn out by cutting off supply in case of overheating
16. Reverse Rotation Protection : (Optional) Electromechanical device senses wrong rotation Direction & cuts off power supply.
17. Comprehensive Cable Gland : Four stage sealing ensures pressure resistant moisture proof sealing even in case of protective sheath puncture, ensuring moisture free motor environment
18. Fasteners : In corrosion resistant materials for long service life

SAS SAD Series



TYPICAL APPLICATIONS DEWATERING & DESILTING OF DRY DOCKS



Dry docks need to be dewatered before maintenance/ repairs on vessels. The vessel floats in with brackish water having a very high Content of silt, sand , shells & weeds. Metallic swarf from welding, gas Cutting, etc processes is also added to this water.

The ability of SAD/SAS pumps to startup with severe sedimentation of Abrasive silt, sand & swarf; make them ideally suited to these Conditions . They dewater as well as desilt thereby obviating the need for Secondary desilting.

Typically placed in the collection pit they are also run at frequent Intervals to handle leakage from the gates.

MAINTENANCE DREDGING OF MARINE TERMINALS

Marine terminals require to be periodically dredged to restore their draft, failing which the capacity of the vessels which can be docked goes on reducing.

Non cohesive & mildly compacted silt, sand & gravel is dredged effectively by SAD Pumps without the aid of jets / cutter heads (plain suction dredging). The inbuilt Agitator (with or without Jetting Ring) Pumps out the the Sedimented solids. This can either be side cast / piled up onboard hopper or pumped away via floating pipe line to a dump site a few kilometers away.



plain Suction maintenance dredging With SaD pump

SAD pump is suspended directly from crane on self propelled & powered barge. The inbuilt agitator effectively dredges out sand, silt & shells without the help of any cutter. The ballast is transported via floating HDPE pipeline to a dump site a few kilometers away without any booster pump thanks to the high velocity head & pressure generated by the SAD pump.



TYPICAL APPLICATIONS CAPITAL DREDGING

Compared to mechanical dredging (clam shell /buckhoe, etc) hydraulic dredging With SAS pumps is cheaper, silent , easier & has higher production rates. To Excavate sedimented shells, silt , sand & gravel, cutterheads (rotary or auger) are used. SAS pump is mounted just behind the cutterhead. The excavated Ballast is powerfully sucked up by SAS pump with minimum spillover due to high Inlet velocity & proximity to cutterhead.

Solids respond to velocity flow & not to pressure. Thus higher the suction velocity (momentum), the higher the concentration / size of solids that pump sucks. Non submersible hull mounted pumps suck liquid – solid admixture through a long Suction tube & thus operate at lower velocities . Since the impeller (main pump Body) is located far from the cutterhead / dustpan, solids have to travel a Considerable distance before reaching the impeller.

SAS & SAD pumps operate at much higher suction velocities & are placed very Near to the cutterhead. Thus they can pump higher concentration / size of solids & operate at higher discharge pressure & Velocities . This helps in dredging to deeper Levels, pumping to longer distances & Higher solid pickup.

For those who would still prefer non Submersible hull mounted pump & yet want To dredge deeper, SAS pumps can be used As feeder / booster pumps installed in the Suction tube just behind the cuttler head. C.R.I also offers its AMSM & ASM series of Submersible motors for direct drive of Cutter heads , etc



feature	Jet eductors	Conventional pumps	SaD pumps
Distance between Pump & cutterhead / auger / dustpan		Far Sway	Near
Solid concentration pumped	Medium	Poor	High
Ability to pump out larger sized solids	Poor	Medium	Good
Fuel to gravel efficiency	Low	Medium	High
Momentum of Solids at discharge	Medium	Medium	High
Dredging depth permissible	Medium	Medium	Deep
System Weight & Space required	Heavy & Massive	Heavy & Massive	Low & Compact
Clean water Source & Associated Machinery	Required	Not Required	Not Required
Clogging	Frequent	Medium	Rare

SAS SAD

Series



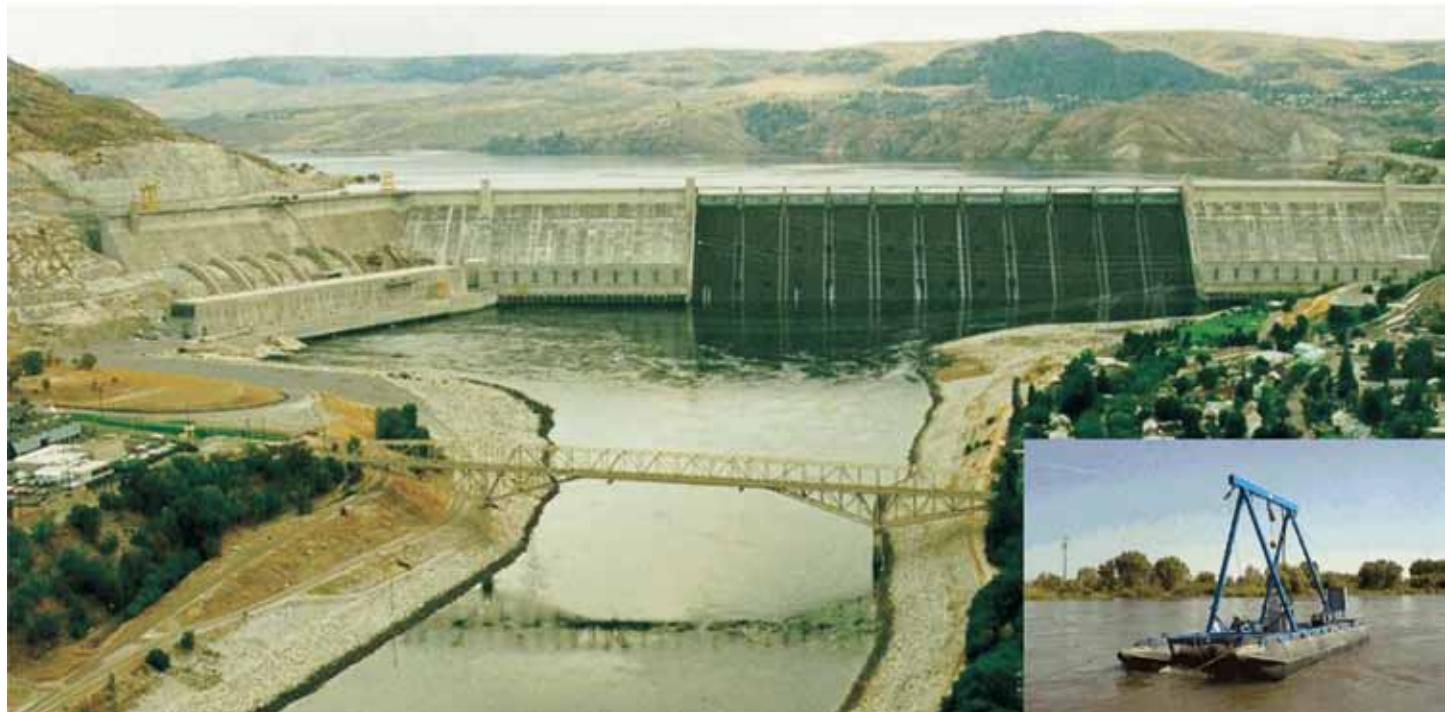
MAINTENANCE DREDGING OF WATER BODIES

Reduced capacity overtopping, flooding , induced seismicity & environmental concerns are among the prime problems caused by siltation , which largely determines the useful lifetime of a water resource projects (hydropower station ., check dams , reservoirs , etc). This can be corrected by periodic desilting / dredging.

River bed dredging curtails overflow when water is released from the dam. The dredged soil can be deposited on the sides to enhance Levi height, thus creating ever greater capacity to hold the released water without flooding.

Despite the long term macro economic benefits , dredging is not carried out in a major way due to prohibitive costs of conventional dredging.

Now SAD pumps offer a substantially cost economic option of dredging by doing away with the need of expensive full fledged dredgers. Simple & Effective " Dredgers" can be made with SAD pumps, like the one shown on the right. SAD pumps can be suspended from overhead chain pulley block aboard a simple structure comprising floating pontoons & overhead gantry . Delivery Pipes dispose the pumped silt at a dumping site. Once sufficient desilting is Done at a spot the "dredger" is tugged to newer spots



DREDGING FOR CONSTRUCTION



Jetty Construction SaD

Plain suction dredging with SAD pump : The pump is Suspended from crane arm & dredged ballast is pumped pipe lines Via pipeline to a dump site a few kilometers away



Pipeline / Cable laying

ADS pumps help in burying or retrieving under water for oil, gas , waste disposal , etc



DEWATERING CUM DREDGING FOR CONSTRUCTION

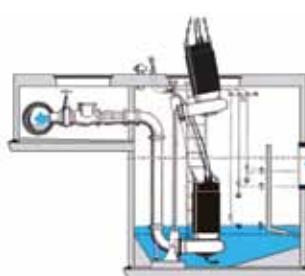


Dewatering & dredging of coffer dams / caissons ballot

Construction in the vicinity of water bodies invariably, silt & gravel seepage. Caissons / coffer dams Have to be dewatered & dredged before concreting. SAD pumps are fully portable , can be quickly commissioned & dredge out the ballast without much fuss.

INDUSTRY

SAD /SAS pumps offer sedimentation free pumpage of fly ash, scrubber waste , in Thermal power Stations & process water in Stone processing units, Quarries, steel plants, etc with minimum wear & zero maintenance. Sewage/Effluent treatment plants benefit from the viscous sludge handling ability Especially with the allied use of jetting ring. These pumps start up even under full sedimentation & pump out substantially higher concentrations of silt / sludge than non submersible pumps, thereby reducing sedimentation at pump bottom. Additional pluses include minimal piping system , flexibility & No pump house requirement .



fOr permaNeNT iNSTallaTiONS

C.R.I.'s unique Auto Coupling System enables coupling / discoupling ASS/ADS pump from the piping system by simply lowering / pulling the pump & Ideal for wet pit arrangement as there is no need To enter into the sump at all.

OpTIONS

Jetting Ring	Suction shredder for fibrous solids
Deeper submergence model	Higher ambient temperature rating models
Inverter duty motors	Flame proof motors for mines
Reverse rotation protection	Special Anti corrosive / Erosive Coatings
Seal conduction monitoring	Special voltage and Frequency

SAS SAD Series



TECHNICAL SPECIFICATION

Pump Discharge size	DN 50 to DN 600 mm	
Operating temperature	Standard upto 50° C	
Depth of submergence	Standard : 15 m (Deeper submergence models available)	
Motor	Ratings	5 to 450 hp
	Speed	1500, 1000, 750 rpm (synchronous)
	Duty & Protection	S1 & IP68
	Supply	3Ø, 415V @ 50 Hz (Options available)
	Thermal Protection	By Thermistors
	Starting	DOL / Star Delta / ATS / Soft Starter

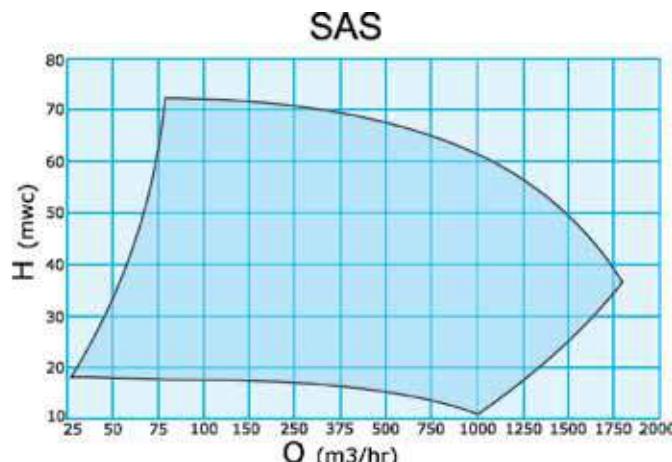
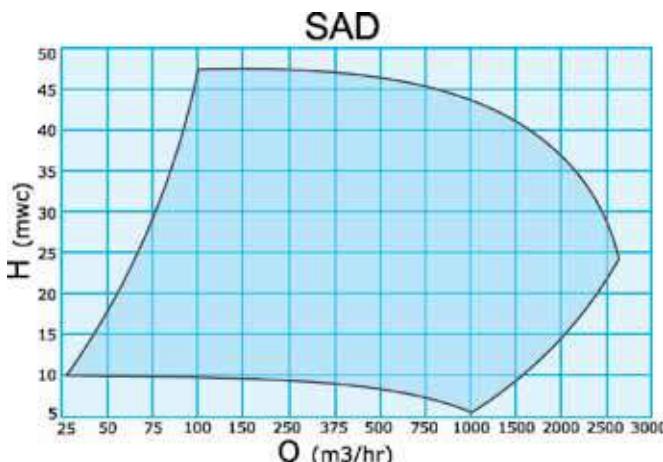
MATERIAL OF CONSTRUCTION

	Option 1	Option 2	Option 3	Option 4	Option 5
Pump Casing & Suction Cover	Ductile Cast Iron	Wear Resistant High Chrome Iron	Ni Resist	Austenitic Manganese Steel	Austenitic Stainless Steel
Impeller, Agitator & Wear Plates			Ni Hard	Abrasion Resistant, Cr Mo White Iron	Duplex Stainless Steel
Motor Casing, Cable Thermal Chamber	Grey Cast iron	Double Cast Iron	Austenitic Stainless Steel	NAB	
Oil Chamber (Stuffing Box)	Grey / Double Cast Iron	Wear Resistant High Chrome Iron / Ni Resist			Duplex Stainless Steel
Shaft	SS 410	SS 301	SS 420	SS316	
Cooling Jacket	MS Galvanized	SS 202	NAB		
Fasteners	SS304	GM	Naval Brass	AB	SS 316
Elastomers	Nitrile	Neoprene	Viton / Kelrez	EPDM	Silicon
Mechanical Seal (Primary)	Tungsten Carbide v/s Tungsten Carbide	Silicon Carbide v/s Silicon Carbide			
Mechanical Seal (Secondary)	Cast iron Chrome Moly Steel v/s Resin Impregnated Carbon	Tungsten Carbide v/s Antimony Impregnated Carbon	Silicon Carbide v/s Antimony Impregnated Carbon		
Other Materials to suit exacting requirements available on request. Material pairing depends upon the exact media & duty.					

PERFORMANCE CURVES
CURVE DI PRESTAZIONE

ХАРАКТЕРИСТИЧЕСКИЕ КРЫВЫЕ
COURBE CARACTÉRISTIQUE

CURVA CARACTERÍSTICA
CURVA CARACTERÍSTICA



Electric accessories – Accessori elettrici - электрические аксессуары
Accessoires électriques - Accesorios eléctricos - Acessórios elétricos

Accessories



Accessories

Electrical and Hydraulic

Accessori

Accessori elettrici e idraulici

Аксессуары

Электрические аксессуары Гидравлические аксессуары

Accessoires

Accessoires électriques et hydrauliques

Accesorios

Accesorios hidráulicos y eléctricos

Acessórios

Acessórios elétricos e hidráulicos

Accessories

Electric accesories – Accessori elettrici - электрические аксессуары
Accessoires électriques - Accesarios eléctricos - Acessórios elétricos

Control panels - Quadri elettrici - Пульты Электрощит для Tableaus électriques - Cuadros eléctricos - Quadros eléctricos



Control panel direct on line starting for 1 pump

Box in protected execution IP44 with hinge door, for wall fixing by outside auricles, comprehensive:

- General tripolare switch.
- Tern of valves complete with relè.
- Telemotor protector of thermal relè.
- Transformer manual-off-auto.
- Singlephase transformer for the power feeding of the circuits of command and signalling with protection relè.

• Lamp for presence net.

• Lamp for signal pump on.

• Lamp for signal relè on.

• 4 clamps for command with two float-switches with electric contact.

• 2 clamps for auxiliary block command (for micro-thermostats inserted in the motor windings).

• Clamps for three-phase line in-out: in out through rubber cable lock.

• Signalling of the dispersion of current in the oil chamber.

Control panel direct on line starting for 2 pumps

Box in protected execution IP44 with hinge door, for wall fixing by outside auricles, comprehensive:

- General tripolare switch.
- Tern of valves complete with relè.
- Telemotor protector of thermal relè.
- Transformer manual-off-auto pump 1 pump 2.
- Singlephase transformer for the power feeding of the circuits of command and signalling with protection relè.

• 2 lamps for signal pump 1 on - pump 2 on.

• 2 lamp for signal relè motor 1 on - motor 2 on.

• Electronic auxiliary relè for automatic alternance of pump.

• 8 clamps for float-switches command.

• 4 clamps for auxiliary block command (for microthermostats inserted in the motor windings).

• Clamps for three-phase line in-out: in-out through rubber cable lock

• Signalling of the dispersion of current in the oil chamber.

Control panels star delta starting

In the overmentioned control panels substitution of telemotor protectors with the same number of:

• Tripolars contactors for line.

• Tripolars contactors for star.

• Tripolars contactors for delta complete with thermal relè.

Options for all the control panels

Voltmeter with switch, ampermeter, counter-hours, optical and acoustic alarm.

Microprocessor centrals for the management, the monitoring and the tele-control of pumping stations with 2 or more pumps.

Quadro elettrico avviamento diretto per 1 pompa	Cassetta in esecuzione protetta IP 44 con portella a cerniera, per fissaggio a parete a mezzo orecchiette esterne, comprendente: <ul style="list-style-type: none"> • Interruttore generale tripolare. • Terna di valvole completa di fusibili. • Telesalvamotore tripolare di relè termico regolabile. • Comutatore manuale-disinserito-automatico. • Trasformatore monofase per l'alimentazione dei circuiti di comando e segnalazione, con fusibili di protezione. • Lampada presenza rete. 	• Lampada di segnalazione pompa inserita. • Lampada di segnalazione intervento relè termico. • 4 morsetti per comando con due galleggianti con contatto elettrico. • 2 morsetti per comando ausiliario di blocco (per microtermostati inseriti nell'avvolgimento). • Morsetti per entrata-uscita linea trifase; entrate-uscite a mezzo passacavi in gomma. • Segnalazione della dispersione di corrente nella camera di tenuta olio.
Quadro elettrico avviamento diretto per 2 pompe	Cassetta in esecuzione protetta con portella a cerniera, per fissaggio a parete a mezzo orecchiette esterne, comprendente: <ul style="list-style-type: none"> • Interruttore generale tripolare. • Terne di valvole complete di fusibili. • 2 telesalvamotori tripolari completi di relè termici regolabili. • Comutatore a più posizioni per comando: manuale-disinserito-automatico pompa 1 e pompa 2. • Trasformatore monofase per l'alimentazione dei circuiti di comando e segnalazione, con valvole e fusibili di protezione. 	• 2 lampade di segnalazione "inserita pompa 1 - inserita pompa 2". • 2 lampade di segnalazione intervento termico "motore 1 - motore 2". • Relè ausiliario elettronico per alternanza automatica pompa. • 8 morsetti per comando galleggianti. • 4 morsetti per comando ausiliario di blocco (per microtermostati inseriti nell'avvolgimento). • Morsetti per entrata-uscita linea trifase; entrate-uscite a mezzo passacavi in gomma. • Segnalazione della dispersione di corrente nella camera di tenuta olio.
Quadri elettrici avviamento stella/triangolo	Nei quadri sopra elencati sostituzione dei telesalvamotori con uno stesso numero di:	• Contattori tripolari per linea. • Contattori tripolari per stella. • Contattori tripolari per triangolo completi di relè termici regolabili.
Opzione per tutti i quadri	Voltmetro con commutatore, amperometro, contaore, allarme ottico/acustico.	• Centraline a microprocessore per la gestione, il monitoraggio e il telecontrollo di impianti di 2 o più elettropompe.

Accessories

Electric accesories – Accessori elettrici - электрические аксессуары
Accessoires électriques - Accesorios eléctricos - Acessórios elétricos

Электрощит для прямого пуска 1 насоса	<p>Коробка в исполнении IP 44 с шарнирной дверцей, для крепления на стене с помощью наружных скоб. Конструкция:</p> <ul style="list-style-type: none"> • Трехполюсный главный выключатель. • Блок клапанов с плавкими предохранителями • Дистанц. авар. выключатель двигателя с регулируемым термореле • Переключатель ручной-выкл.-автоматич. • Монофазный трансформатор для питания контуров управления и сигнализации, с защитными предохранителями • Сигнальная лампочка питания 	<ul style="list-style-type: none"> • Сигнальная лампочка “насос включен” • Сигнальная лампочка срабатывания термореле • 4 клеммы для управления с 2 поплавками с электрическим контактом • 2 клеммы для сигнала дополнительной блокировки (для микротермостатов в обмотке) • Клеммы для входа-выхода трехфазной линии; входы-выходы с резиновыми вставками для защиты кабелей. • Сигнализация об утечке тока в масляной камере
Электрощит для прямого пуска 2 насосов	<p>Коробка в защищенном исполнении с шарнирной дверцей, для крепления на стене с помощью наружных скоб. Конструкция:</p> <ul style="list-style-type: none"> • Трехполюсный главный выключатель. • Блок клапанов с плавкими предохранителями • 2 дистанц. авар. выключателя двигателей с регулируемыми термореле • Переключатель управления: ручной-выкл.-автоматич. насос 1 и насос 2 • Монофазный трансформатор для питания контуров управления и сигнализации, с защитными предохранителями и клапанами 	<ul style="list-style-type: none"> • 2 сигнальных лампочки “насос 1 включен - насос 2 включен” • 2 сигнальных лампочки срабатывания термореле “двигателя 1 - двигателя 2” • Вспомогательное электронное реле для автоматической смены рабочего насоса • 8 клемм для управления поплавками • 4 клеммы для сигнала дополнительной блокировки (для микротермостатов в обмотке) • Клеммы для входа-выхода трехфазной линии; входы-выходы с резиновыми вставками для защиты кабелей. • Сигнализация об утечке тока в масляной камере
Электрощит для пуска звезда/треугольник	<p>В вышеуказанных электрощитах замена дистанц. авар. выключателя двигателей на такое же количество:</p>	<ul style="list-style-type: none"> • трехполюсных контакторов для линии • трехполюсных контакторов для звездочки • трехполюсных контакторов для треугольника, оснащенных регулируемыми термореле.
Опция для всех пультов	<p>Вольтметр с переключателем, амперметром, счетчиком часов, визуальной/звуковой сигнализацией.</p>	<p>Микропроцессорные блоки для управления, наблюдения и дистанционного управления системами с 2 и более электронасосами.</p>

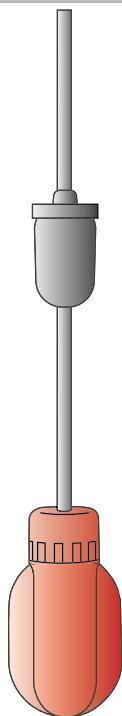
Аппараты изготовлены согласно требований действующих норм и служат для управления и защиты 1 или нескольких насосов. Специальные исполнения под заказ.

Tableau électrique démarrage direct pour 1 pompe	Enveloppe en matériaux métallique IP 44 avec porte à charnière pour fixation à paroi composé de: <ul style="list-style-type: none"> • Tripolaire commutateur • Ensemble complet de trois vannes de fusible • Protection de surcharge par des relais termiques changer ON- OFF- AUTO • Transformateur monophasé pour alimentation des circuits de commande et signalisation avec fusible de protection • Lampe puissance 	• Lampe de signalisation pompe ON • Lampe d'intervention relais termiques • 4 terminaux pour le contrôle avec 2 flotteurs • 2 terminaux pour commande auxiliaire avec témoin de blocage • Terminaux IN - OUT triphasé • Dispositif relevage dispersion de puissance dans la chambre d'huile
Tableau électrique démarrage direct pour 2 pompes	Enveloppe en matériaux métallique avec porte à charnière pour fixation à paroi composé de: <ul style="list-style-type: none"> • Tripolaire commutateur • Ensemble complete de trois vannes de fusible • 2 protections de surcharge par des relais termiques • Changer ON- OFF- AUTO pour 2 pompe • Transformateur mono-phased pour alimentation des circuits de commande et signalisation avec fusible de protection 	• 2 lampes de signalisation “ pompe 1 ON” et “pompe 2 ON” • Lampe d'intervention relais termiques “moteur 1 and moteur 2” • Relais auxiliaire pour alternance automatique des pompe • 8 terminaux pour la commande des flotteurs • 4 terminaux pour commande auxiliaire avec témoin de blocage • Terminaux IN - OUT triphasé • Dispositif relevage dispersion de puissance dans la chambre d'huile
Tableau électrique démarrage étoile-triangle	dans les tableaus électriques ci-dessus remplacement de relais moteur avec le même nombre de:	• Contacteur tripolaire pour démarrage direct • Contacteur tripolaire pour démarrage étoile • Contacteur tripolaire pour démarrage triangle avec relais termiques
Options pour tous les tableau électrique	Voltmètre avec sélecteur , ampèremètre, compteur d'heures, alarme acoustique et visual	Unités de commande par microprocesseur pour le commande des 2 o plus pompes
Cuadros eléctricos arranque directo para 1 bomba	armario metálico IP 44 para fijar a la pared constituido por: <ul style="list-style-type: none"> • Interruptor general • Conjunto de tres válvulas con fusibles • Relé electrónico de sobrecarga • Selector ON-o-AUT - OFF • Transformador monofásico para alimentación de circuitos de control con fusible de protección 	Lámpara de señalización bomba insertada Lámpara de señalización Relé electrónico de sobrecarga • 4 terminales de control con 2 reguladores de nivel • 2 terminales para los comandos auxiliares de bloque • Terminales IN - OUT trifásico • Dispositivo aviso fuga corrientes en la cámara de aceite
Cuadros eléctricos arranque directo para 2 bombas	armario metálico IP 44 para fijar a la pared constituido por: <ul style="list-style-type: none"> • Interruptor general • Conjunto de tres válvulas con fusibles • 2 Relé electrónico de sobrecarga • Selector ON-o-AUT - OFF para bomba 1 e bomba 2 • Transformador monofásico para alimentación de circuitos de control con fusible de protección 	• 2 Lámparas de señalización bomba 1 y bomba 2 • Lámpara de señalización Relé electrónico de sobrecarga motor 1 y motor 2 8 terminales de control para reguladores de nivel 4 terminales para los comandos auxiliares de bloque • Terminales IN - OUT trifásico • Dispositivo aviso fuga corrientes en la cámara de aceite
Cuadros eléctricos arranque $\lambda\Delta$	en los cuadros eléctricos mencionado sustitución de los relé con el mismo número de:	• Contador para arranque directo • Contador para arranque estrella • Contador para arranque triángulo con relé termico
opciones para todos Cuadros eléctricos	Voltmetro con selector fase, amperometro, contador horas, alarma acústico y visivo	Controladores con microprocesador para el control de 2 o más bombas

Accessories

Electric accesories – Accessori elettrici - электрические аксессуары
Accessoires électriques - Accesarios eléctricos - Acessórios elétricos

Cuadros eléctricos accendimento direto para 1 bomba	<p>Invólucro metálico IP 44 para fixação à parede consistindo de:</p> <ul style="list-style-type: none"> • Botão geral • Conjuntos de válvulas completo com fusíveis • Alarme em caso de intervenção proteção sobre-carga • Botão ON –OFF- MAN • Transformadores monofásicos para alimentação do circuito de controle de abastecimento com fusíveis proteção 	<ul style="list-style-type: none"> • Lâmpada de sinalização bomba inserida • Lâmpada de sinalização intervenção relé termicos • 4 terminais para controle com 2 reguladores de nível • 4 terminais comandos auxiliares de bloque • Terminais IN - OUT trifásica • Dispositivo detecção fuga de corrente na câmara de óleo
Cuadros eléctricos accendimento direto para 2 bombas	<p>Invólucro metálico IP 44 para fixação à parede consistindo de:</p> <ul style="list-style-type: none"> • Botão geral • Conjuntos de válvulas completo com fusíveis • 2 Alarmes em caso de intervenção proteção sobre-carga • Botão ON –OFF- MAN para bomba 1 e bomba 2 • Transformadores monofásicos para alimentação do circuito de controle de abastecimento com fusíveis proteção 	<ul style="list-style-type: none"> • 2 lâmpadas de sinalização bomba 1 e bomba 2 inserida • 2 lâmpadas de sinalização intervenção relé termicos motor 1e motor 2 • 8 terminais para controle reguladores de níveis • 4 terminais comandos auxiliares de bloque • Terminais IN - OUT trifásica • Dispositivo detecção fuga de corrente na câmara de óleo
Cuadros eléctricos accendimento Δ	<p>nas cuadros eléctricos acima substituição de alarmes com o mesmo número de</p>	<p>contador para acendimento direto contador para acendimento estrela contador para accendimento triângulo</p>
opções para todos cuadros eléctricos	Voltímetro, amperímetro, medidor de horas, alarme acústico y visivo	Controladores come microprocessador para o controlo de 2 ou mais bombas



Gallegianti - Float regulators - Поплавковый выключатель Régulateurs de niveau - Reguladores de nivel - Reguladores de níveis

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОБЩИЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRAL - CARACTERÍSTICAS GENERALES - CARACTERÍSTICAS GERAIS	
Type - Modelo - Modèle Type - Tipo - Típo	Cable length - Lunghezza cavo - Длина кабеля Longueur câbles - Longitud cables - Comprimento do cabo
CFR - 05	0.5m
CFR - 50	5m
CFR - 100	10m
CFR - 150	15m
CFR - 200	20m

Other lengths available on request - Altre lunghezze disponibili a richiesta - Другая длина возможна под заказ - Autres longueurs disponibles sur demande - Otras longitudes disponibles bajo petición - Outros comprimentos disponíveis sob consulta

Float switch water resistant up to 100 m deep with microswitch electric contacts/switch.

Use

Level control for filling and emptying tanks or cisterns. It can be installed directly on the submerged pumps because of its small dimensions.

max. working pressure: 10 bar.

max. working temperature: 55 °C.

available cables: pvc, neoprene, silicon cable, cable for diesel oil.

Optional: balance weight.

Поплавковый регулятор уровня герметичный до глубины 100 м с электрическими контактами с микровыключателем/выключателем.

Применение

Контроль уровня для заполнения или опорожнения баков или цистерн; благодаря своей компактности, поплавок может устанавливаться напрямую на скважинный насос.

Максимальное рабочее давление: 10 бар.

Максимальная рабочая температура: 55 °C.

Возможные кабеля: ПВХ, неопрен, дизельный, силикон.

Опции: противовес.

Regulador del nivel con boya hermética hasta 100 m de profundidad con contactos eléctricos con micro interruptor/comutador.

Aplicaciones

Control llano para llenar y vaciar tanques o la cisterna. Gracias a su pequeño tamaño se puede montar directamente en las bombas sumergibles.

presión máx. de funcionamiento: 10 bar.

Temperatura máx.: 55 °C.

Cables disponibles: PVC, neopreno, silicona

Opcional: contrapeso

Regolatore di livello a galleggiante stagno fino a 100 m di profondità con contatti elettrici a microinterruttore/interruttore.

Impiego

Controllo di livello per riempimento o svuotamento di serbatoi o cisterne; grazie alle sue ridotte dimensioni può essere montato direttamente sulle pompe sommerse.

max. pressione di lavoro: 10 bar.

max. temperatura di lavoro: 55 °C.

Cavi disponibili: pvc, neoprene, cable gasolio, silicone.

Optional: contrappeso.

Régulateur de niveau à floteur hermétique jusqu'à 100 m de profondeur avec contacts électrique à micro interrupteur/commutateur.

Applications

Commande de niveau pour remplir et vider les réservoirs. Merci à sa petite taille

peut être monté directement sur les pompes submersibles

résistance à la pression d'immersion: 10 bar.

Température max: 55 °C.

Câbles disponibles: PVC, néoprène silicone

Optional: contrepoids

Regulador de nível com bóia estanques até 100 m di profundidade com contactos eléctricos a micro-interruptores/comutadores.

Usos

Controlo do nível para enchimento ou avaziamento de reservatórios ou cisternas. Graças ao seu tamanho compacto pode ser montado diretamente sobre as bombas submersíveis.

pressão máx. de serviço: 10 bar

Temperatura máx de serviço: 55 °C

Cabos disponíveis: PVC, neoprene, silicone

Opcionai: contrapeso

Accessories

Electric accesories – Accessori elettrici - электрические аксессуары
Accessoires électriques - Accesorios eléctricos - Acessórios elétricos

Cables - Cavi - Кабеля - Câbles - Cables - Cabos

H07rN-f fleXTreme

The constructive cable features ensure an excellent estate to the bad weather, garlcs oil and greases, to the mechanical and thermal solicitations. These cables can be used for permanent immersions up to 10 bar of pressure.

The Flextreme is usable up to 85 °C for fixed installations up to 1000 V of nominal tension.

Take off in accordance with to the essential BT73/23 directive requirements and 93/68 we reference rule CEI 20-19 (CENELEC HD 22-4-53).

H07rN-f fleXTreme

Конструкционные характеристики кабеля обеспечивают отличную устойчивость к воздействию атмосферных осадков, масел и консистентных смазок, механическим и тепловым воздействиям. Кабеля могут работать в постоянно погруженном режиме до давления 10 бар.

Кабеля этой модели могут использоваться при температурах до 85 °C при стационарной установке с номинальным напряжением до 1000 В.

Изделие отвечает существенным требованиям Директив BT73/23 и 93/68 CE, используемый стандарт - CEI 20-19 CEI 20-19 (CENELEC HD 22-4-53).

H07rN-f fleXTreme

Las características constructivas del cable aseguran una excelente resistencia a la intemperie, aceites y grasas, el estrés mecánico y propiedades térmicas. Estos cables se pueden utilizar para inmersiones permanentes hasta 10 bares de presión. El Flextreme es utilizable hasta 85 °C para las instalaciones fijas hasta 1000 V de voltaje nominal.

Cable cumple con los requisitos esenciales de las directivas BT73/23 y 93/68 CE, Normas de referencia CEI 20-19 (CENELEC HD 22/04/53).

H07rN-f fleXTreme

Le caratteristiche costruttive del cavo garantiscono un'eccellente tenuta alle intemperie, agli olii e grassi, alle sollecitazioni meccaniche e termiche. Questi cavi possono essere utilizzati per immersioni permanenti fino a 10 bar di pressione.

Il flextreme è utilizzabile fino a 85 °C per installazioni fisse fino a 1000 V di tensione nominale.

Cavo conforme ai requisiti essenziali delle direttive BT73/23 e 93/68 CE norma di riferimento CEI 20-19 (CENELEC HD 22-4-53).

H07rN-f fleXTreme

Les caractéristiques constructives du câble offrent une excellente résistance à la météo, les huiles et les graisses, le stress mécanique et les propriétés thermiques. Ces câbles peuvent être utilisés pour des plongées permanentes jusqu'à la pression de 10 bar. Le Flextreme est utilisable jusqu'à 85 °C pour les installations fixes jusqu'à 1000 V de tension nominale.

Câble qui répond aux exigences essentielles des directives BT73/23 et 93/68 CE de référence la norme CEI 20-19 (CENELEC HD 22/04/53).

H07rN-f fleXTreme

As características construtivas do cabo proporcionar excelente resistência ao tempo, óleos e graxas, estresse mecânico e as propriedades térmicas. Estes cabos podem ser utilizados para o mergulho permanente até a 10 bar de pressão.

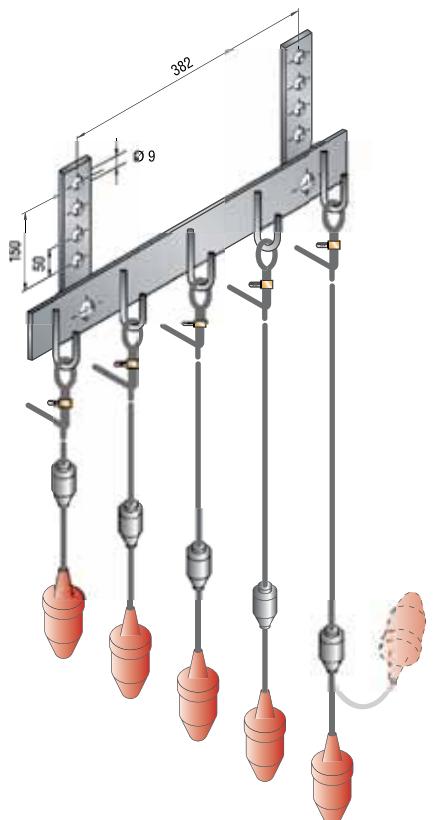
O Flextreme é utilizável até 85 °C para instalações fixas até 1000 V de tensão nominal.

Cabo que cumpre os requisitos essenciais das directivas BT73/23 e 93/68 CE de referência padrão CEI 20-19 (CENELEC HD 04/22/53).

SECTION CABLES - SEZIONE CAVI - СЕЧЕНИЕ КАБЕЛЕЙ - SECTION DU CÂBLE - SECCIÓN DEL CABLE - SECÇÃO DO CABO

3G 1	4G 1	4G 1.5	4G 2.5	4G 4	4G 10	4G 16	7G 1,5	7G 2,5	10G 1,5	10G 2,5	12G 2,5

Holder Flasks - Staffe - Планки - Supports - Suportes - Suportes



Staffe portaregolatori disponibili con 3 e 5 ganci.

Планки для подвешивания регуляторов с 3 и 5 крюками

Suportes de reguladores de nivel están disponibles con 3 e 5 ganchos.

Float regulators holder flask available with 3 and 5 hooks.

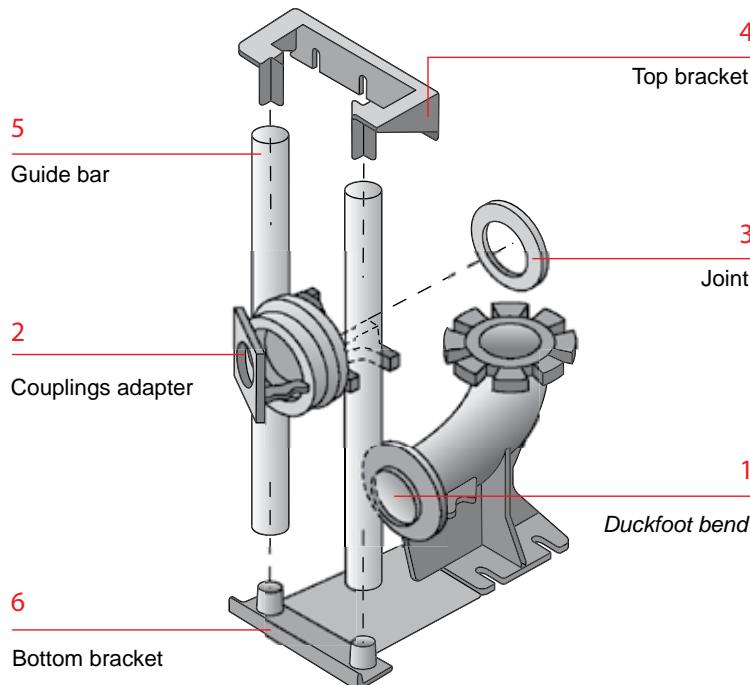
Supports des régulateurs de niveau disponibles avec 3 et 5 crochets.

Suportes de reguladores de níveis disponíveis com 3 e 5 ganchos

Accessories

Electric accessories – Accessori elettrici - электрические аксессуары
Accessoires électriques - Accesorios eléctricos - Acessórios elétricos

Low Level Coupling - Piedi di Accoppiamento - Соединительные Ножки Pieds d'assise - Pie de Acoplamiento - Pés de Acoplamento



GENERAL FEATURES - CARATTERISTICHE GENERALI - ОБЩИЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICAS GERAIS		
Type - Modello Модель - Modèle Modelo - Modelo	Dimensions - Dimensioni -Размеры - Dimensions Dimensiones - Dimensões	Guide rails dimensions - Dimensioni tubi guida - Размеры направл. труб Dimensions Tube guide - Dimensões tubos guia - Dimensões tubos guias
GR40/2	1" 1/2 - 2"	Ø 26.9 mm
GR50N	2" - 2"	Ø 26.9 mm
GR50	DN 50/50	Ø 26.9 mm
GR65	DN 65/65	Ø 42.4 x 3.2 mm
GR80	DN 80/80	Ø 60.3 x 3.65 mm
GR80N	DN 80 PN10	Ø 60.3 x 3.65 mm
GR100	DN 100/100	Ø 60.3 x 3.65 mm
GR100N	DN 100/100	Ø 60.3 x 3.65 mm
GR150/150K	DN 150/150	Ø 60.3 x 3.65 mm
GR200/150K	DN 200/150	Ø 2" 1/2
GR200/200K	DN 200/200	Ø 2" 1/2
GR250/200K	DN 250/200	Ø 2" 1/2
GR250/250K	DN 250/250	Ø 2" 1/2
GR300/250K	DN 300/250	Ø 2" 1/2
GR300/300K	DN 300/300	Ø 2" 1/2
GR400/350K	DN 400/350	Ø 3"
GR400/400K	DN 400/400	Ø 3"

Speedy connection of the pump to inlet piping complete with elbow, pump adapter, brackets for guide rails (rails except),gaskets and screws.

Materials

Foot, brakets: cast iron GS400-12 UN14544
Adapter: spheroidal cast iron GS400-12 UNI 4544.
Other materials on request.

Для быстрого соединения насоса с напорной трубой.
Комплектация: колено, ползун, скобы для направляющих труб (трубы не включены в комплект), уплотнения и винты.

Материалы

Ножка, скобы для труб: чугун GS400-12 UN14544
Ползун: сфероидальный чугун GS400-12 UNI 4544.
Другие материалы под заказ.

Pied d'assise rapide de la pompe au le tuyau de refoulement avec curve, adaptateur, support pour les tubes de guidage (sauf pour les tubes de guidage), joints et les vis.

Matériaux

Pied, supportES pour les tubes: fonte GS400-12 UN14544
adaptateur: fonte sphéroïdal GS400-12 UNI 4544.
Autres matériaux sur demande

Accoppiamento rapido dalla pompa alla tubazione di mandata completo di curva, slitta, staffe fermatubi per tubi guida (tubi guida esclusi), garnizioni e viteria.

Materiali

Piede, staffe fermatubi: ghisa GS400-12 UN14544.
Slitta: ghisa sferoidale GS400-12 UNI 4544.
Altri materiali su richiesta.

Pied d'assise rapide de la pompe au le tuyau de refoulement avec curve, adaptateur, support pour les tubes de guidage (sauf pour les tubes de guidage), joints et les vis.

Matériaux

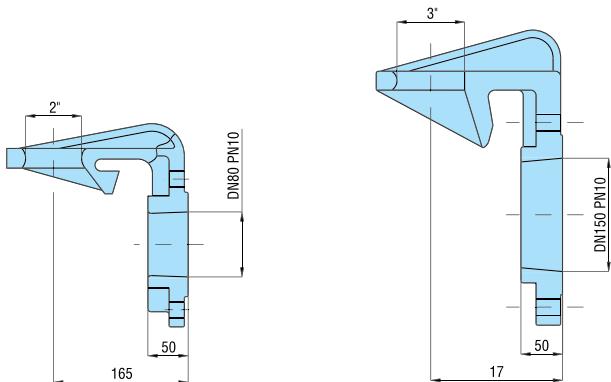
Pied, supportES pour les tubes: fonte GS400-12 UN14544.
adaptateur: fonte sphéroïdal GS400-12 UNI 4544.
Autres matériaux sur demande

Pes de acoplamento a partir da bomba ao a tubagem de descarga completa a curva, adaptador , suporte tubo guia (excluindo os tubos de guia), juntas e parafusos.

Materiais

Pes, suportes: ferro fundido GS400-12 UN14544.
Adaptador: ferro fundido esferoidal GS400-12 UNI 4544.
Outros materiais sob consulta

Adapters - Adattatori - Переходники Adaptateurs - Adaptadores - Adaptadores



GENERAL FEATURES - CARATTERISTICHE GENERALI - ОБЩИЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICAS GERAIS		
Type - Modello Модель - Modèle Modelo - Modelo	Dimensions - Dimensioni Размеры - Dimensions Dimensiones - Dimensões	Guide rails dimensions - Dimensioni tubi guida Размеры направл. труб - Dimensions Tube guide Dimensões tubos guia - Dimensões tubos guias
C80	DN 80	Ø 2"
C100	DN 100	Ø 3"
C150/100-3	DN 150/100 R3"	Ø 3"
C150/100-2	DN 150/100 R2"	Ø 2"
C150-3	DN 150 R3"	Ø 3"
C150-2	DN 150 R2"	Ø 2"

Pump adapters for couplings already installed

Переходники для уже установленных соединительных ножек

Adaptadores para pie de acoplamiento ya instalados

Adattatori per piedi di accoppiamento già installati

Adaptateurs pour pieds d'assise déjà installé

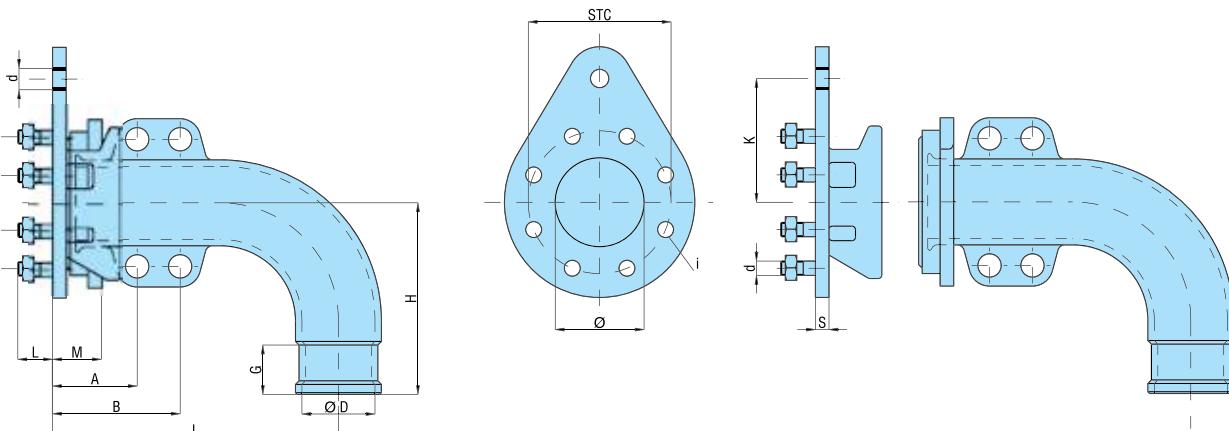
Adaptadores para pés de acoplamento já instalados

Accessori Idraulici – Hydraulic Accessories – Гидравлические Аксессуары - Accessoires Hydrauliques - Accesorios Hidráulicos - Acessórios Hidráulicos

External Automatic Coupling - Accoppiamento Automatico Esterno

Наружное Автоматическое Соединение - Accouplement Automatique Externe

Acoplamento Externo Automático - Acoplamento Externo Automático



GENERAL FEATURES - CARATTERISTICHE GENERALI - ОБЩИЕ ХАРАКТЕРИСТИКИ - CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICAS GERAIS															
Type - Modello - Модель Modèle - Modelo - Modelo	PN	Ø D	A	B	G	H	K	L	M	NW	d	L1	i	STC	S
CK 80	10	75	100	150	62	170	150	300	76	80	M16	40	4	160	16
CK 100	10/16	100	100	150	62	210	150	325	76	100	M16	40	8	180	16

Accessories

Electric accesories – Accessori elettrici - электрические аксессуары
Accessoires électriques - Accesorios eléctricos - Acessórios elétricos

Lifting Chain - Catene - Цепи - Chaînes - Cadenas - Cadeias



LENGTH - LUNGHEZZA - ДЛИНА КАБЕЛЯ - LONGUEUR - LONGITUD - COMPRIMENTO	6 m	8 m	10 m	12 m
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Warm galvanized steel lifting chain. Other diameters available on request

Горячеоцинкованные цепи. Другие диаметры поставляются под заказ.

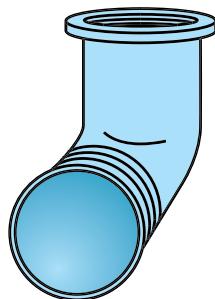
Cadenas galvanizadas. Otros tamaños disponibles bajo petición.

Catene zincate a caldo. Altri diametri disponibili a richiesta.

Chaînes en acier galvanisé. Autres tailles sont disponibles sur demande

Cadeias galvanizadas. Outros tamanhos disponíveis sob pedido

Outlet Elbows - Curve di Uscita - Выходные Колена Courbe de débit - Curva de salida - Curva de remessa

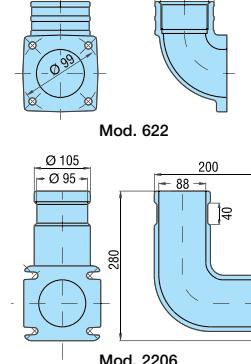


Galvanised outlet elbow 90° M/F.

Напорные колена 90° резьбовые НАРУЖ./ВНУТ.
оцинкованные

Curva de salida a 90 ° galvanizado y roscado M / F

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОБЩИЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICAS GERAIS	
Modello - Type Modello Modèle Modelo - Modelo	Dimensioni - Dimensions Размеры Dimensions - Dimensiones - Dimensões
CL622	DN 50
CL1110/B	DN 65
CL2206	DN 100
CL2206+CV	DN 100



Gomiti di mandata a 90° filettati e zincati M/F.

Courbe de débit à 90 °galvanisé et fileté M / F

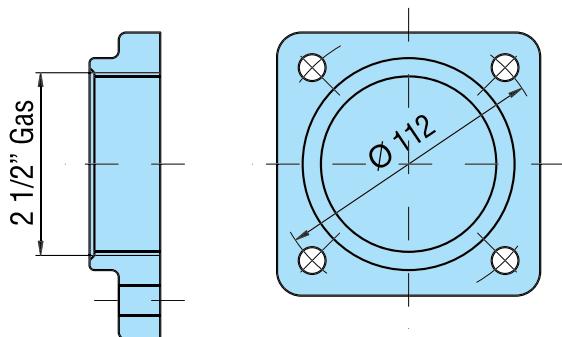
Curva de salida a 90 ° galvanizado y roscado M / F

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОБЩИЕ ХАРАКТЕРИСТИКИ CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICAS GERAIS	
Type - Modello - Модель Modèle Modelo - Modelo	Dimensions - Dimensioni - Размеры Dimensions - Dimensiones - Dimensões
CG 90 MF 1 1/2 Z	1" 1/2
CG 90 MF 2" Z	2"
CG 90 MF 2" 1/2 Z	2" 1/2

Electric accessories – Accessori elettrici – электрические аксессуары
 Accessoires électriques - Accesorios eléctricos - Acessórios elétricos

Accessories

Flanges - Flange - Фланцы - Bride - Brida - Flange



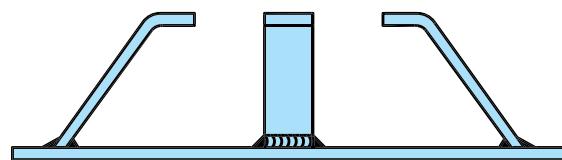
Square threaded flange
 Резьбовые квадратные фланцы
 Brida cuadrada roscada

GENERAL FEATURES - CARATTERISTICHE GENERALI - ОБЩИЕ ХАРАКТЕРИСТИКИ
 CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICAS GERAIS

Type - Modello - Модель Modèle Modelo - Modelo	Dimensions - Dimensioni - Размеры Dimensions - Dimensiones - Dimensões
C1109	DN 65

Flange quadre filettate
 Bride carrée filetée
 Flange quadrada enfiada

Base Stand - Basi di Appoggio - Опоры Base de support - Base de apoyo - Base de apoio



Base stand in galvanized steel.
 Опоры из оцинкованной стали.
 Base de apoyo en acero galvanizado

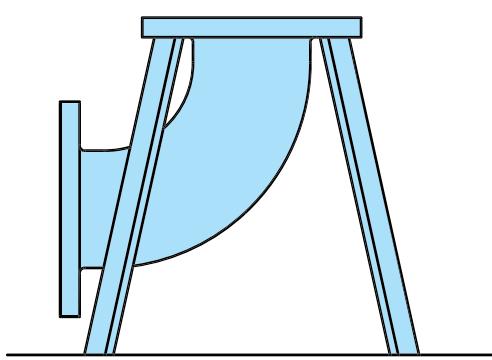
GENERAL FEATURES - CARATTERISTICHE GENERALI - ОБЩИЕ ХАРАКТЕРИСТИКИ
 CARACTÉRISTIQUES GÉNÉRALES - CARACTERÍSTICAS GENERALES - CARACTERÍSTICAS GERAIS

Series - Serie Серия - Série Modelo - Série	Dimensions - Dimensioni Размеры - Dimensions Dimensiones - Dimensões	Guide rails dimensions - Dimensioni tubi guida - Размеры направл. труб Dimensions Tube guide - Dimensiones tubos guía - Dimensões tubos guias
GB-2 1/2"	CB65	DN 65
GB-4"	CB100	DN 100
MC-3" / 4"	CB80-100	DN 80-100
* MC-6"	CB150-1	DN 150
** MC-6"	CB150-2	DN 150
KC-6"	CB150-2	DN 150
KC-8"	CB200	DN 200
KC-10"	CB250	DN 250

* Up to 16,9 kw - Fino a 16,9 kw - До 16,9 кВт - Jusq' à 16,9 kw - Hasta 16,9 kw - Até 16,9 kw

** From 17 kW - Da 17 kW - До 17 кВт - De 17 kW - Por 17b kW - Por 17 kW

Basi di appoggio in acciaio zincato.
 Base de support en acier galvanisé.
 Base de apoio em aço galvanizado.



Base stand with suction elbow for vertical
 dry installation.
 Опора с всасывающим коленом для "сухой"
 вертикальной установки
 Base de apoyo con curva aspiración para instalación
 vertical

Series - Serie Серия - Série Modelo - Série	Dimensions - Dimensioni Размеры - Dimensions Dimensiones - Dimensões	Guide rails dimensions - Dimensioni tubi guida - Размеры направл. труб Dimensions Tube guide - Dimensiones tubos guía - Dimensões tubos guias
MC - 3"	CTVS 80A-R	DN 80 PN 10
MC - 4"	CTVS 100A-R	DN 100 PN 16/180
MC - 6"	CTVS 150A-R	DN 150 PN 16/240
KC - 6"	CTVS 150/200 R	DN 150
KC - 6"	CTVS 150/200 R	DN 150/200
KC - 8"	CTVS 200 R	DN 200
KC - 8"	CTVS 200/250 R	DN 200/250
KC - 10"	CTVS 250 R	DN 250
KC - 10"	CTVS 250/300 R	DN 250/300
KC - 12"	CTVS 300 R	DN 300
KC - 18"	CTVS 400 R	DN 400

Base di appoggio con gomito di aspirazione
 per installazione verticale a secco.
 Base de support avec courbe d'aspiration pour installation
 vertical à sèche
 Base de apoio com curva aspiração para instalação vertical
 a seco

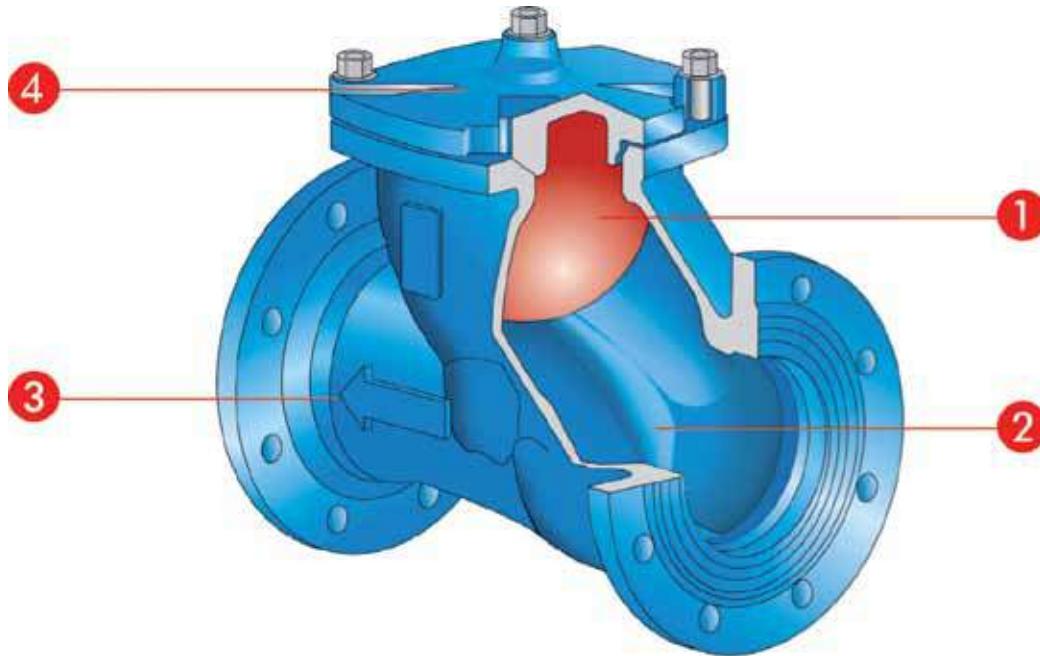
Accessories

Electric accesories – Accessori elettrici - электрические аксессуары
Accessoires électriques - Accesorios eléctricos - Acessórios elétricos

Ball Check Valves Valvole di Ritegno a Palla

Гидравлические Аксессуары Clapet Anti-Retour a Boule

Valvulas de Retencion con Esfera Válvulas de Retenção a Bola



1. Otturatore a palla vulcanizzata NBR
2. Il coperchio permette una facile manutenzione
3. La freccia indica la direzione del flusso e il senso dell'installazione
4. Finitura superficiale interna/esterna in vernice epossidica blu RAL 5002 (standard)

1. Обтюратор с шариком из вулканизированного НБР
2. Крышка упрощает тех. обслуживание
3. Стрелка указывает направление потока и направление монтажа
4. Покрытие наружной/внутренней поверхности из синей эпоксидной краски RAL 5002 (стандарт)

1. Bola de obturador vulcanizado NBR
2. La tapa permite un fácil mantenimiento
3. La flecha indica la dirección del flujo y la dirección de la instalación
4. Pintura epoxídica interior / exterior azul RAL 5002 (estándar)

1. Ball vulcanized shutter
2. The cover permits a simple maintenance
3. The arrow shows the flow and the installation direction
4. Internal and external epoxy finish paint (RAL 5002 standard)

1. Balle d'obturation vulcanisé NBR
2. Le capot permet une maintenance aisée
3. La flèche indique la direction du flux et le sens de l'installation
4. Finition de surface et interne / externe peinture époxy bleu RAL 5002 (standard)

1. Bola vulcanizada NBR
2. Tampa permite a manutenção fácil
3. A flecha indica a direcção do fluxo e na direcção da instalação
4. Pintura interior / exterior com tinta epóxica azul RAL 5002 (padrão)

Applications

For heavy, thick and viscous fluids and dirty water.

- Very slight pressure drop
- Full bore
- Self cleaning
- Silent
- Horizontal and vertical installation

Приложения

Особенно подходит для вязких, густых, грязных, сточных жидкостей.

- Минимальная потеря напора
- Полный проход
- Система самоочистки
- Бесшумность
- Горизонтальная или вертикальная установка

Utilizacion

Especialmente adecuado para líquidos viscosos y densos, y las Aguas residuales

- Perdidas de carga muy bajas
- Agujero completo
- Sistema autolimpiante
- Silencioso
- Instalación vertical u horizontal

Applicazioni

Particolarmente adatta per liquidi viscosi, densi, carichi e acque di scarico.

- Minima perdita di carico
- Passaggio totale
- Sistema autopulente
- Silenziosa
- Installazione orizzontale o verticale

Applications

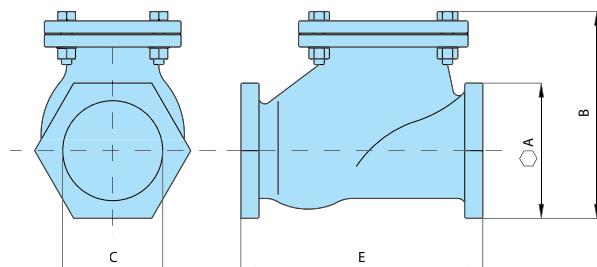
Particulièrement adapté pour les liquides visqueux, denses, et les eaux usées.

- Pertes de charges très basses
- Passage totale
- Système auto-nettoyant
- Silencieux
- Installation vertical ou horizontal

Usos

Particularmente indicado para líquidos viscosos, densos, e águas residuais

- Perdas da carga muito baixas
- Passagem plena
- Sistema de auto-limpeza
- Silêncio
- Instalação vertical ou horizontal

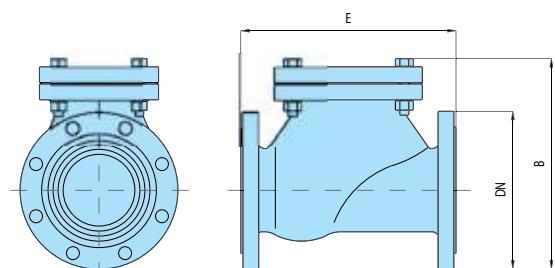


F/F threaded, cast iron GG 25 - Filettate F/F in ghisa GG 25
Резьбовые ВНУТ./ВНУТ. из чугуна GG25 - Fileté F/F en fonte GG 25
Roscada F/F en hierro fundido GG 25 - Roscada F/F em ferro fundido GG 25

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO				
C	1 1/2"	2"	2" 1/2	3"
A	62	73	92	115
B	120	146	178	227
E	138	166	198	236

Flanged PN10, cast iron GG 25 inspectable - Flangiata PN10 in ghisa GG 25 inspezionabile - Фланцевые PN10 из чугуна GG25 с возможностью осмотра - Bridé PN10 en fonte GG 25 inspectable - Brida PN10 en hierro fundido GG 25 para inspección - Flangeada PN10 em ferro fundido GG 25 para inspeção

INSTALLATION SIZES - DIMENSIONI DI INSTALLAZIONE - УСТАНОВОЧНЫЕ РАЗМЕРЫ DIMENSIONS D'INSTALLATION - DIMENSIONES DE INSTALACIÓN - DIMENSÕES DE INSTALAÇÃO												
DN	40	50	65	80	100	125	150	200	250	300	350	400
B	172	187	218	262	317	343	397	494	596	680	800	1050
E	180	200	240	260	300	350	400	500	600	700	85	1100



NOTES

NOTES

NOTES



C.R.I. PUMPS

Pumping trust. Worldwide.

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