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## Каталог продукции SULZER

### О компании

**Sulzer is a global partner offering reliable and sustainable solutions for performance-critical applications. Our innovative solutions add value and strengthen the competitive position of our customers.**

### Vision, Strategic Priorities, and Values

**The Sulzer vision and strategic priorities define our overall direction. The Sulzer values act as an inner compass, guiding all our activities. They define who we are and how we conduct ourselves.**

### Information

#### Vision

Our customers recognize us for our leading technologies and services, delivering innovative and sustainable solutions.

#### Strategic priorities

All strategic priorities are oriented toward our customers with a focus on value creation and profitable growth

- Technology leadership
- Outstanding services
- Continuous operational improvements
- Collaborative advantage

## Values

- Operational Excellence:  
We continuously strive to be faster and better.
- Customer Partnership:  
Together, we win.
- Committed People:  
We build on the strengths and diversity of our people

## Продукция

### Статические смесители SMX SULZER

**The SMX plus static mixer is the reference for homogenization and dispersing tasks in laminar flow. Even challenging mixing applications such as dosing a small amount of low- viscous additive into a high-viscous main stream can be performed very efficiently.**



#### Key characteristics

The SMX plus static mixer is the new revolutionary generation of static mixers featuring half the pressure drop of the SMX mixer. As a result, significant cost savings can be achieved through reduced mixer and pipe diameters, or by using smaller pumps. The SMX plus mixer will therefore most probably replace the SMX mixer in the near future.

#### Customer benefits of the SMX type

- Excellent mixing and dispersing even with widely differing fluid viscosities
- Compact designs
- Reduced product degradation due to very short residence time
- Mixing of sensitive products under minimal shear stress
- No deposits and blockages due to excellent cross-mixing

#### The SMX plus mixer additionally offers:

- 50% lower pressure drop compared to a standard SMX mixer
- Cost savings through smaller mixer, piping and pumps

Shear sensitive fluids such as polymers are mixed under very gentle process conditions. Dispersing of gases and liquids in high-viscous fluids is possible down to the smallest droplets with very narrow size distribution.

#### Technical specification SMX plus static mixer

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Diameter	from 15 mm – 200 mm
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stainless steel 1.4404

Standard material

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Special materials available upon request

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### Technical specification SMX static mixer

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Diameter from 3.2 mm – 200 mm

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Standard material 316 stainless steel

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Standard housings for SMX and SMX plus mixers are in accordance with DIN or ANSI code. Design and fabrication to other codes such as ASME or AD2000 are also possible.

## Статические смесители SMV SULZER

**The Sulzer SMV static mixer is ideal for applications that require a distributive and homogeneous mixing and blending action in the turbulent flow regime.**

### Key characteristics

The Sulzer SMV mixing elements consist of intersecting corrugated plates and channels that encourage rapid mixing in combination with plug flow progression. Any number of additives can be mixed at the same time within the mixing zone.



### Major advantages

- High mixing efficiency combined with large turn-down processing capabilities
- Short mixing length
- Low energy requirements
- Zero maintenance

References covering more than thirty five years of equipment supply demonstrate the quality and popularity of the equipment being offered.

### Customer benefits

- Fast and complete reaction, absorption or extraction due to high mass transfer area
- Constant and reproducible product qualities
- Fast mass transfer due to continuous renewal of the interface surface area
- Minimum space requirement of mixer and disperser

## Applications

Typical uses for the Sulzer SMV static mixer are applications requiring dispersive mixing or mass transfer in the turbulent flow regime. This occurs typically between immiscible phases where an interfacial tension exists. Examples are oil/water or gas/liquid systems. Higher shear forces are required for this dispersion task.

## Technical specification

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Diameter	from 8 mm – 250 mm
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Standard material	316 stainless steel, PP, PTFE, PVDF
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## Статические смесители SMI, KVM SULZER

**The Sulzer static mixers type SMI and KVM are ideal for liquid-liquid mixing in the turbulent flow regime. These mixers can also be used for mixing gases.**



### Key characteristics

The geometry of both mixer types has been optimized with the help of CFD simulation. The mixing elements create large counter rotating vortices and ensure efficient mixing over the entire cross section of the pipe. The static mixer type SMI is mainly sold in Europe and Asia, whereas the KVM type is the standard product for the North and South American market.

The **SMI mixer** has an open structure, which eliminates the risk of clogging. Its key characteristics are:

- Appropriate dosing options
- Simple construction
- Low pressure drop
- Efficient mixing within a short distance

Static Mixer SMI for universal turbulent mixing tasks

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The **KVM mixer** features a pressure drop of only 11" of water column at 5 ft/sec. It can mix additives introduced upstream of the mixer or mix additives injected directly in front of the first mixing element. In order to allow the injection of multiple additives, the KVM mixer can also be supplied with multiple injection port connections. The KVM mixer allows mixing of additives without a sparger.

Static Mixer KVM for liquid liquid mixing in the turbulent flow regime

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## Customer benefits

- Low energy consumption due to small pressure drop
- Excellent mixing
- Fast and cost-efficient solutions due to standardized design
- Efficient mixing of additives injected upstream
- Multiple additive feed possible
- Wide variety of materials available, also for highly corrosive fluids

#### Technical specification static mixer type SMI

Diameter	from 25 mm - 250 mm
Standard material	stainless steel, carbon steel
Flanges	acc. to DIN 2501, ANSI B 16.5 or other standards

Special executions in other materials, or for installation in rectangular or square conduits are available on request.

#### Technical specification static mixer type KVM

Diameter	from 2" - 48", larger diameters on request
Standard	316L SS with 150 flanges
Other materials	PP, FRP, PVC, other materials on request

## Статические смесители CompaX SULZER

**The Sulzer CompaX static mixer is your most efficient and economic choice for admixing additives in the turbulent flow regime. Thanks to its low pressure drop, it significantly saves you pump energy, therefore offering both economical and ecological benefits.**



### Key characteristics

The Sulzer CompaX static mixer consists of a highly efficient mixing device with an integrated dosing point. The additive is fed into the zone where there is a strong turbulent flow. Fluids, additives, and gases are reliably and effectively mixed over a very short distance.

### Additive dosing

For larger pipe diameters, you can admix up to 6 additives using only one mixing element.

### Pressure drop

The pressure drop of a Sulzer CompaX mixer is approx. 8 times lower compared to orifice-type static mixers. For low-viscous fluids, it is typically 10 – 100 mbar. This results in significant savings on pump energy, which pays off economically as well as ecologically. You will not experience any clogging problems with this mixer thanks to the open-wing geometry and the additive dosing location.

### Customer benefits

- Efficient mixing (CoV $\leq$  0.05)
- Lowest possible pressure drop
- Short installation length: only approx. 0.3 pipe diameters
- Optimized dosing point for additive mixing, no injection lances required
- No clogging
- Robust construction
- Low installation cost, easy to fit
- Excellent price/performance ratio

### Applications

The Sulzer CompaX static mixer can deal with mixing ratios from 1:5 up to more than 1:10 000. Typical applications can be found in the chemical industry as well as in water or wastewater treatment. In this industry, the CompaX mixer can be used, for example, to admix flocculation agents or for pH adjustment.

Sulzer static mixer type CompaX in FRP for seawater desalination

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### Technical specification

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Diameter	from 25 mm - 2000 mm / 1" - 80"
Standard material	316 stainless steel, 316/316 L stainless steel Polypropylene (PP) 250 - 2000 mm / 10" - 80" Fiber-Reinforced Plastic (FRP)
Special materials	PVC, PTFE, SS-ETFE coated, available upon request

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The mixer is installed in the pipe, mounted between two flanges (DIN 2633 or ANSI B16.5).

Technical specification static mixer type SMI

Diameter from 25 mm - 250 mm

Special executions in other materials, or for installation in rectangular or square conduits are available on request.

Technical specification static mixer type KVM

## Теплообменники SMR SULZER

The Sulzer Mixer Reactor (SMR) is a tube bundle heat exchanger that allows high-effective cooling or heating of viscous media. The SMR heat exchanger is your first choice if you wish to combine effective mixing with controlled heat transfer.



### Functionality

The SMR reactor consists of a series of specially configured tube bundles. They are positioned perpendicular to each other, which enhances radial mixing across volume highly packed with heat transfer surface area. Water, steam, thermal oil, or other special cooling media can be used as heat transfer fluid. Each bundle can be designed to feature different mixing and heat transfer effects in order to meet stringent process requirements.

- Excellent plug flow behavior and narrow residence time distribution
- Well-defined mixing and small reaction volume due to high driving forces for reaction
- Low shear thus gentle product treatment
- No hot spots and no dead zones
- High flexibility with regard to operation and down-turn
- Fast product transition and fast change of process conditions
- Safety and environmental friendliness inherent to the design
- No rotating parts and minimal maintenance costs

### Technical specification

Diameter	from 80 – 1600 mm, larger units upon request
Length	determined by process requirements and requested performance, ranges from 1 m for a compact heat exchanger up to 20 m for a full reactor tower
Standard material	Stainless steel / carbon steel
Special surface coatings	on request (i.e. for food applications)
Design	Welded mono-block is common Flanged design is recommended if process routine requests periodic removal and disposition of bundles

## Теплообменники SMXL Multitube SULZER

In addition to the monotube SMXL, we also offer a multitube mixer-heat exchanger, which offers improved heating or cooling of viscous media at high throughputs. It is the perfect alternative when the flow is too high to be handled in a monotube.



### Functionality

The main stream is divided into several partial pipe streams with the same operation mode as the monotube design. In contrast to a monotube heat exchanger, the SMXL Multitube heat exchanger has no restrictions with regard to product throughput or heat to be transferred.

### Applications

The multitube mixer heat exchanger type SMXL is used mainly for heating and partly for cooling applications especially for heat-sensitive and/or viscous products. A special application is preheating of a polymer solution, where part of the product starts to evaporate already in the heat exchanger, for example prior to entering the devolatilization vessel.

### Customer benefits

- Increased heat transfer coefficient for highly viscous products
- Narrow residence time distribution
- Low shear rate
- Gentle treatment due to short residence time
- Quick change from one product grade to another

### Technical specification

Tube diameter	DN 10 – DN 32
Length	up to 5 meters
Standard material	mixing elements: 1.4574 housing: stainless steel or carbon steel
Design pressure	up to 250 bar
Design temperature	up to 350 °C

Every design is tailor-made to match customer specification. The mixing elements can be fixed within the pipe wall, or installed as a removable mixing element assembly.



## Теплообменники SMXL Monotube SULZER

The SMXL monotube heat exchanger is the simplest version of a static mixer / heat exchanger. It can be used as a heat exchanger or reactor for applications requiring continuous mixing. The result is significantly increased heat transfer and a narrow residence time distribution.



### Functionality

The product stream flows through the inner pipe. The heat carrier medium for cooling or heating the product circulates between the inner and outer pipe. The inner pipe through which the product flows is filled with static mixing elements, creating a radial mixing effect. The result is considerably increased heat transfer and a narrow residence time distribution. A continuous renewal of the thermal boundary layer on the piping wall prevents thermal damage of heat-sensitive products.

### Applications

The monotube SMXL mixer heat exchanger is used for pilot units or small industrial plants for cooling, heating, and temperature-controlled reaction applications. The flow is usually laminar or the products to be handled are mostly of medium or high viscosity.

### Customer benefits

- High heat transfer coefficient (approx. 4 times better than that of an empty pipe)
- High degree of plug flow
- Gentle treatment due to short residence time
- Narrow residence time distribution
- Quick change from one product grade to another
- Self-cleaning behavior

### Technical specification

Diameter	DN 10 – DN 50
Length	up to 5 meters
Standard material	stainless steel 1.4574
Design pressure	up to 250 bar
Design temperature	up to 350 °C

## Стоматологические системы MIXPAC SULZER

Sulzer Mixpac is proud of being the world's leading manufacturer and supplier of metering, mixing, and dispensing systems for reactive multicomponent dental material. We are constantly optimizing our systems in line with customer requirements to maintain our outstanding market and technology position. Please find an overview of our latest products here.



### MIXPAC™ 1CC SYRINGE- 360° Comfort

The Sulzer Mixpac 1CC SYRINGE is suitable for hygienic singleuse applications or multiple use of e.g. flowable composites. Due to the international standardized luer lock closure, different dispensing tips can be applied easily. The 1CC SYRINGE is available in black, white and transparent.

#### MIXPAC™ 1CC SYRINGE

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### MIXPAC™ S-DISPENSER II - Designed for your hands only

The new MIXPAC™ dispenser with its aesthetic-elegant design is a precise and easy-to-use instrument which makes it a self-explanatory article of daily use.

The MIXPAC™ S-DISPENSER II stands for:

- Elegant, innovative Design
- Medical look-and-feel
- Optimal results in functional and aesthetic aspects
- Simplified workflow
- Outstanding ergonomics
- Self explaining and fatigue-free handling
- Various customizing options

#### MIXPAC™ S-DISPENSER II

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### MIXPAC™ T-MIXER – Why waste more than 25% of material!

Revolutionary improvement of the well-established MIXPAC™ dental mixers to the advantage of the user.

The new mixing technology provides less material waste and consistently high mixing quality. The changeover to the new T-MIXER is easy to implement: 100 % compatibility with the existing MIXPAC™ systems is guaranteed – as before, all original accessories fit.

The MIXPAC T-MIXER was rated “excellent” by The Dental Advisor:

- 67% of consultants found the mixer to be better than conventional 2-K dental mixers
- 83% would change immediately to the new MIXPAC T-MIXER
- 87% would recommend the new MIXPAC T-MIXER to a colleague



## MIXPAC™ T-MIXER Portfolio

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### **MIXPAC COLIBRI™ Mixer with Needle**

This product features mixers of the MIXPAC™ L- and S-systems combined with a needle made of medical steel for endodontic application of two-component dental material. The bendable, turnable needle simplifies intraoral works and saves time. The rounded needle reduces the risk of iatrogenic injuries.

Your benefits

- A rounded needle made from medical stainless steel
- A freely bendable and rotating needle with a constant inner diameter
- Hygienic sterilizable individual packaging
- There is no risk of the needle falling into the patient's mouth
- Assembly of intraoral syringes is no longer necessary

## **Стоматологические системы MIXPAC S-System SULZER**

**This outstanding application system opens up new opportunities for intraoral and extraoral applications. The diverse, high-quality portfolio offers high flexibility in formulating customers materials.**

All components of the MIXPAC™ S-System are compatible and proved over 10 years in the Dental industry. Tested products for ideal mixing results, clean room production for a high standard of hygiene and reliable technical solutions offer a high user comfort.

The Sulzer Mixpac application system consists of a dispenser, a cartridge with separate cylinders, pistons, a cap and a mixer which can be selected according to the formulation of the material.

### **MIXPAC™ - The Original**

To be 100% sure that you are working with a premium product, check the tips for the MIXPAC™ brand.

The shape and colors (yellow, green, blue, purple, pink, brown) of the mixing tips are protected by U.S. trademark registrations. The orange color element of the mixing tip is a brand of Sulzer Mixpac.

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### **MIXPAC™ S-Dispenser II**

The MIXPAC™ S-Dispenser II with its aesthetic-elegant design is a precise and easy-to-use instrument which makes it a self-explanatory article of daily use.

Elegant, innovative Design, Medical look-and-feel, Optimal results in functional and aesthetic aspects, Simplified workflow, Outstanding ergonomic, Self-explaining and fatigue-free handling, Various customizing options

### MIXPAC™ Cartridges

Completely separated cylinders reduce undesirable diffusion between the two materials. This improves the storage stability of the filled products and maintains their quality. The black cartridges are particularly suitable for light sensitive materials.

Volumes	Ratios	Colors	Material	Pistons
18 ml	1:1	white	PP	O-Ring Pistons
25 ml	2:1	black	PBT	Lip Pistons
30 ml	4:1			
50 ml	10:1			
75 ml				

### MIXPAC™ Mixers for S-System

The MIXPAC™ portfolio consists of mixers with different diameters, numbers of mixing elements and shapes for the different requirements.

With the helix static mixing method the established and proved MIXPAC™ S-Mixer achieves an excellent and steady mixing quality.

The MIXPAC™ T-Mixer with the new mixing technology reduces waste material, provides an even more homogeneous mixing result and opens up opportunities in developing more complex materials.

With the flexible needle the Colibri™ is ideal for precise intraoral placement of automixed materials such as dual-core composites, silicones and resin cements.



∅ (mm)	Elements	Interface	Ratios	Specials
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3.2	-	D-Type (for intraoral tips)	1:1/2:1	Light-sensitive materials
4.2	-	S-Type	4:1/10:1	Endodontics
5.4	12			New Technology (T)
6.5	14			
7.5	16			

## S-System

## Customer Benefits

### Advantages

Separate outlets      Safe and clean operation • No cross-contamination • Multiple use

Coded closure cap      Safe and easy to use • No cross-contamination

Pressure-resistant design      Precise dosing – accurate application • Also suitable for high-viscosity materials • High long-term stability

Wide range of mixers      Optimal mixer for each two-component dental material

Complete system      High process safety • Little user effort required • Fatigue-free operation

### Independent Research Group Awards MIXPAC™ T-Mixer Highest Ratings

The independent US research institute, the Clinicians Report Foundation®, tested the MIXPAC™ T-Mixer in the 2nd quarter 2015 and gave it the highest ratings. In particular, the experts highlighted the reduction in material waste while maintaining consistent mixing quality versus conventional products.

- An independent, non-profit, dental education and product testing foundation. *Clinicians Report*®, May, 2015. For the full report, click >here.

### Mixpac™ - Intra Oral Tip (IOT)

- LOOK FOR the Yellow Shape for genuine products from Sulzer MIXPAC
- TM Notice: The Shape and Color of the nozzle is a trademark of Sulzer MIXPAC

### Candy Colors™

The Swiss original stands for innovation in application. For system solutions which lead in precision, safety and compatibility to provide maximum efficiency. Six colors distinguish the color

look – our Candy Colors™ (Yellow, Teal, Blue, Pink, Brown and Purple). Mixpac's six brand values characterize premium quality.

## Стоматологические системы MIXPAC L-System SULZER

**This compact automix application system opens up new opportunities for intraoral and extraoral applications. The diverse, high-quality portfolio offers high flexibility in formulating customers materials.**

All components of the MIXPAC™ L-System are compatible and proved over years in the Dental industry. Tested products for optimal mixing results, clean room production for a high standard of hygiene and reliable technical solutions offer a high user comfort.



The Sulzer Mixpac application system consists of the double syringe with separate cylinders, a plunger, pistons, a cap and a mixer which can be selected according to the formulation of the material.

### MIXPAC™ - The Original

To be 100% sure that you are working with a premium product, check the tips for the MIXPAC™ brand.

The shape and colors (yellow, green, blue, purple, pink, brown) of the mixing tips are protected by U.S. trademark registrations. The orange color element of the mixing tip is a brand of Sulzer Mixpac.

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### MIXPAC™ Dispenser

For easy and precise application of high-viscosity products, Sulzer has developed a dispenser for 5 ml and 10 ml cartridges. The dispenser allows fatigue-proof dispensing, a target and clean application and precise metering.

Dispenser for L-System: fatigue-proof and precise

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### MIXPAC™ Double Syringes

The separate cylinders of the ergonomic double syringe reduce diffusion between the contents. This improves the storage stability of the filled materials and maintains their quality. The black double syringes are particularly suitable for light-sensitive materials.

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**Volumes**

**Ratios**

**Colors**

**Material**

**Pistons**

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2.5 ml	1:1	white	PP	Silicone Pistons
5 ml	4:1	transparent	PBT	PE Pistons
10 ml	10:1	black		

### MIXPAC™ Mixers for L-System

The MIXPAC™ portfolio consists of mixers with different diameters, numbers of mixing elements and shapes for the different requirements.

With the helix static mixing method the established and proved MIXPAC™ S-Mixer achieves an excellent and steady mixing quality.

The MIXPAC™ T-Mixer with the new mixing technology reduces waste material, provides an even more homogeneous mixing result and opens up opportunities in developing more complex materials.

With the flexible needle the Colibri™ is ideal for precise intraoral placement of automixed materials such as dual-core composites, silicones and resin cements.

Ø (mm)	Elements	Interface	Ratios	Specials
2.5	8	D-Type (for intraoral tips)	1:1/2:1	Light-sensitive materials
3.2	10	S-Type	4:1/10:1	Bleaching
	12			Endodontics
	16			New Technology (T)

L-System Advantages	Customer Benefits
Separate outlets	Safe and clean operation • No cross-contamination • Multiple use
Coded closure cap	Safe and easy to use • No cross-contamination
Rigid design	Precise dosing - more accurate application • Ergonomic • High long-term stability
Reusable plunger	Environmentally friendly • Saves space and money

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Wide range of mixers

Optimal mixer for each 2-component material

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Individual configuration possible

Supports material manufacturer branding

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Complete system

High process safety

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## Стоматологические системы MIXPAC BD-System SULZER

**The Large Cartridge System complements the product family and sets new standards in the dynamic mixing of impression materials in a 380 ml dispenser.**

This system is very easy to use, highly functional, and compatible with conventional 5:1 table-top mixers.



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### BD- System Advantages

### Customer Benefits

Separate outlets

Safe and clean operation • No cross-contamination • Multiple use

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Pressure-resistant design

Especially for high-viscosity materials • High long-term stability • Process safety through additional Bionetting

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Compatibility

Usable with all conventional table top mixers

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## Системы смешивания B-System SULZER

**MIXPAC™ B-system includes a double syringe with 25 mL volume and a cartridge system, using a manual dispenser, with 50 mL volume, available in different mixing ratios. The mixer assortment includes different mixing elements, lengths, diameters, mixer tips and other accessories.**

Features include separated outlets to avoid cross-contamination, piston retention as required for air shipment, and a wide variety of mixers, and compatibility with A-system dispensers. Different ratios and materials are available.



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Volumes	25 mL	50 mL	75 mL
Ratios	1:1	1:1, 2:1, 4:1, 10:1	10:1

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<b>Colors</b>	nature, white	nature, white	nature
<b>Materials</b>	PP, PA 6	PP, PA 6, PBT	PBT

<b>Product advantages</b>	<b>Your benefits</b>
Separated outlets	Leak-free connection Safe and clean
Defined positioning of cap	Safe and easy handling No cross-mixing
Rigid construction	Precise dosing – accurate application Suitable for high-viscosity compounds High, long-term stability
Integrated piston retention	Safely transported by air and sea Withstands variations in pressure and temperature
Wide variety of different mixers	Optimal mixer for each 2-K adhesive Extended variety of mixers enabled with the Interface Converter
Complete system	High process reliability Little user effort required Fatigue-free working

## Dispensers

Dispenser: MIXPAC™ B-system dispenser for cartridges with volumes between 50 and 75 mL, with different mixing ratios

## Mixers:

Mixer: MIXPAC™ B-system, collection of various mixers with different sizes for specific applications

Patented interface of B-system mixers with separate outlets to prevent cross-contamination

## Interface Converter

Simply click the MIXPAC™ Converter onto the standard B-System cartridges and ensure full compatibility with all mixers of the smaller K-System.

MIXPAC™ Converter B-K: for a extended variety of mixers

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## Cartridges

Cartridges: MIXPAC™ B-system cartridge 50 mL, mixing ratio 1:1 with closure cap; Plunger: MIXPAC™ B-system plunger for syringes with 25 mL volume

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## Mixer Accessories

Luer lock adapters for needles

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- Various mixers of different lengths with accessories such as fine dispensing tips
- Cartridges in PP, PA 6 and PBT with various volumes and mixing ratios
- Sulzer Mixpac offers dispensers for easy and exact application

## Системы смешивания F-System SULZER

MIXPAC™ F-System offers a complete, compatible system with cartridges of 200 mL and 400 mL volumes, using a manual or pneumatic dispenser. The mixer assortment includes different mixing elements, lengths, diameters, mixer tips, and accessories. Its coded interface prevents cross-contamination.



### Features

- Patented mixer interface with separated outlets to avoid cross-contamination
- Different materials (PP, PA 6, PBT)
- Pre-staged self-bleeding pistons for air-free filling
- Full range of mixers completed by ergonomic manual and pneumatic dispensers of professional quality

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Volumes	200 mL	400 mL
Ratios	1:1, 2:1, 4:1, 10:1	1:1, 2:1, 4:1, 10:1

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<b>Colors</b>	nature, white	nature, white
<b>Materials</b>	PP, PA 6, PBT	PP, PA 6, PBT

### Product advantages

### Your benefits

Separated outlets

Leak-free connection  
Safe and clean

Defined positioning of cap

Safe and easy handling  
No cross-mixing

Rigid construction

Precise metering – accurate application  
Suitable for high-viscosity compounds

Integrated piston retention

Safely transported by air and sea  
Withstands variations in pressure and temperature

Wide range of different mixers

Optimal mixer for each 2-K adhesive

Complete system

High process reliability  
Little user effort required  
Fatigue-free working

### Dispensers

Besides the manual dispenser, F-System also offers a pneumatic dispenser for less needed pressure.

Pneumatic dispenser for F-System, air pressure offers fatigue-free operation

### Mixers

Various mixers of the MIXPAC™ and QUADRO™ type for different applications with the 2-K F-System

Patented interface of F-system mixers with separate outlets to avoid cross-contamination

## Interface Converter

Simply click the MIXPAC™ Converter onto the standard F-System cartridges and ensure full compatibility with all mixers of the smaller B-System.

MIXPAC™ Converter: for a extended variety of mixers

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## Cartridges

Cartridges with the volumes of 200 mL and 400 mL, available in various mixing ratios

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## Системы смешивания DoubleSyringe GreenLine SULZER

**The 25 mL DoubleSyringe GreenLine is the first of our regular products on a biopolymer basis. It is the sustainable version of the already tried-and-tested 25 mL DoubleSyringe B-System on the basis of wood fibers, a renewable resource.**

This GreenLine version offers the same technical features as its full plastic version of the MIXPAC B-System including

- Separate outlets to avoid cross contamination
- Piston retention as required for air shipment
- Full variety of mixers



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<b>Volumes</b>	25 mL
<b>Ratios</b>	1:1
<b>Color</b>	Natural brown

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### Components of the 25 mL DoubleSyringe GreenLine:

#### Cartridge 25 mL, 1:1:

- Up to 30 % on biopolymere basis
- Available in 1:1 mixing ratio
- Same technological features as PP / PA versions

25 mL DoubleSyringe GreenLine – cartridge on biopolymer basis

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**Plunger:**

- Made of PP, inked in brown (to match the cartridge)
- Available in 1:1 mixing ratio
- Same technological features as PP / PA versions

25 mL DoubleSyringe GreenLine – plunger

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**Closure Cap:**

- Made of PP (same cap as PP / PA version of 25 mL DoubleSyringe – to keep the color code)
- Available in 1:1 mixing ratio for GreenLine version
- Same technological features as PP / PA versions

5 mL DoubleSyringe GreenLine – closure cap

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**Mixers:**

- Fully compatible with all original mixing tips of the MIXPAC B-System

MIXPAC B-System mixer overview

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**Product advantages:**

**Your Benefits:**

Sustainable solution

Competitors advantage – one step ahead

Separated outlets

Leak free connection  
Safe and clean

Defined positioning of cap

Safe and easy handling  
No cross mixing

Rigid construction

Precise dosing therefore accurate application  
Suitable for high-viscosity compounds  
High, long-term stability

Integrated piston retention

Safely transported by air and sea  
Withstands variations in pressure and temperature

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Wide variety of different mixers

Optimal mixer for each 2-K adhesive

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Complete system

High process reliability  
Little user effort required  
Fatigue-free working

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## Картриджи для Q-System SULZER

Sulzer offers Q-system coaxial cartridges for chemical anchoring and dowelling, with volumes of 75 to 380 mL with a 10:1 mixing ratio. All cartridges are available with the patented valve pistons. This system includes a range of optimal mixers for every application.



Q-system coaxial cartridges: overview of different variants

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Fill volume – ratio	Description	Cartridge material	Piston type
150 mL – 1:1	Coaxial cartridge	PP white	valve piston closed piston
	Plunger to allow cartridges 150 mL – 1:1 to be used in a standard caulking gun	PP black	
150 mL – 10:1	Coaxial cartridge	PP natural PA natural	valve piston weldable piston closed piston
	Plunger to allow cartridges 150 mL – 10:1 to be used in a standard caulking gun	PP black	valve piston weldable piston closed piston
150 mL – 10:1	Coaxial cartridge	PA natural	valve piston weldable piston closed piston

---

	Extruding system for cartridges with bayonet fitting: 75 mL – 10:1 and 150 mL – 10:1	PA GF, PBT, black	
<b>310 mL – 10:1</b>	Coaxial cartridge	PP white PA natural	valve piston weldable piston valve piston weldable Piston
<b>380 mL – 10:1</b>	Coaxial cartridge	PP natural PA natural	valve piston weldable piston closed piston  valve piston weldable piston closed piston
<b>380 mL – 10:1</b>	Coaxial cartridge with handle	PA natural	valve piston

### Recommendations for dispensing guns

Dispensing pressure for 2-component adhesives can be significant. Therefore we recommend the use of dispensing guns of industrial quality. Sulzer Mixpac offers a wide variety of dispensers, and our cartridges are compatible with a number of dispensing guns from various brands. For details, do not hesitate to contact us.

## Картриджи для J-System SULZER

Sulzer offers Q-system coaxial cartridges for chemical anchoring and dowelling, with volumes of 75 to 380 mL with a 10:1 mixing ratio. All cartridges are available with the patented valve pistons. This system includes a range of optimal mixers for every application.



Q-system coaxial cartridges: overview of different variants

Fill volume – ratio	Description	Cartridge material	Piston type
<b>150 mL – 1:1</b>	Coaxial cartridge	PP white	valve piston closed piston

	Plunger to allow cartridges 150 mL – 1:1 to be used in a standard caulking gun	PP black	
<b>150 mL – 10:1</b>	Coaxial cartridge	PP natural PA natural	valve piston weldable piston closed piston  valve piston weldable piston closed piston
	Plunger to allow cartridges 150 mL – 10:1 to be used in a standard caulking gun	PP black	
<b>150 mL – 10:1</b>	Coaxial cartridge	PA natural	valve piston weldable piston closed piston
	Extruding system for cartridges with bayonet fitting: 75 mL– 10:1 and 150 mL – 10:1	PA GF, PBT, black	
<b>310 mL – 10:1</b>	Coaxial cartridge	PP white PA natural	valve piston weldable piston valve piston weldable Piston
<b>380 mL – 10:1</b>	Coaxial cartridge	PP natural PA natural	valve piston weldable piston closed piston  valve piston weldable piston closed piston
<b>380 mL – 10:1</b>	Coaxial cartridge with handle	PA natural	valve piston

**Recommendations for dispensing guns**



Dispensing pressure for 2-component adhesives can be significant. Therefore we recommend the use of dispensing guns of industrial quality. Sulzer Mixpac offers a wide variety of dispensers, and our cartridges are compatible with a number of dispensing guns from various brands. For details, do not hesitate to contact us.

## Миксеры для J-System, Q-System SULZER

**Mixers of the J- and Q-systems for metering and mixing construction 2-component materials are available in various designs and lengths to meet the requirements of specific applications. Minimal pressure loss and precise metering at high dispensing rates are just a few benefits.**

### Mixers for anchoring

Sulzer QUADRO™ and helical mixers for chemical anchoring applications



Sulzer QUADRO™ and helical mixers for chemical anchoring applications

We offer a special range of disposable static mixers for use in chemical anchoring where the adhesive must be dispensed into a hole or inaccessible places. These mixers are designed with a long nose. On some mixers, an extension tube can be added to make the outlet even longer.

### QUADRO™ mixers with bell inlet

QUADRO™ mixers with stepped outlet to be adjusted to specific requirements by cutting;  
QUADRO™ mixer with integrated screw connection

A disposable mixer especially designed for use with 75 mL to 1500 mL cartridges; it can also be used for metering, mixing, or dispensing applications. Depending on the application in question, the stepped outlet can be adjusted by cutting.

If you are using the mixer on two-component machines and pressures above 25 bar (360psi), a Sulzer QUADRO™ shroud must be used.

To dispense small quantities, the Sulzer needle adapter can be used. Another option is the QUADRO™ 5.3/24PP with luer outlet. A range of disposable dispensing needles can be fitted onto its luer taper outlet.

Internal dimension	Number of elements	Outlet type
5.3	24	luer/step
7.5	24	step

8.7	24	step
8.7	24	step
10.7	24	step

### QUADRO™ mixer with screw connection

QUADRO™ mixers with screw connection with a straight outlet allow high dosing rates; QUADRO™ mixer with bell inlet: its stepped outlet can be easily adjusted to the specific application

The QUADRO™ mixer with integrated screw connection is a disposable mixer specifically designed for use with 75 mL to 1500 mL cartridges.

The mixer has a single lead 7/8" x 9 thread and can be screwed directly onto most cartridges without the need for a separate retaining nut.

The straight outlet allows high dosing rates. By adding a mixer extension onto the outlet, it is possible to apply resin to inaccessible places.

The outlet diameter of the mixers with stepped outlets can be adjusted by cutting.

Internal dimension	Number of elements	Outlet type
8.7	20	straight
8.7	20	stepped
8.7	24	straight
8.7	24	stepped
10.7	16	straight
10.7	19	straight
10.7	24	straight

For detailed technical information, please contact your partner at Sulzer Mixpac.

## Системы покрытия MixCoat Spray SULZER

2-K coating repairs with ships, pipelines and steel constructions are usually done by hand. This leads to high labor costs and a huge amount of waste material. MixCoat™ Spray offers a solution, being faster, cleaner and more economical.



"MixCoat™ Spray" for faster, cleaner and more economical 2-K coating repair works:

The portable MixCoat™ Spray system is ideal for 2-component coating repairs and maintenance jobs. This stand-alone system only requires an air connection. A dual-stage-trigger for the integrated air flow control allows the user to operate this system with only one hand, which makes MixCoat a unique, user friendly solution.

Animation on the functionality of the Sulzer MixCoat Spray system for 2-K protective coating repair jobs.

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MixCoat™ Spray

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### Assortment:

Optional with Standard- or "Quick Lock" air connection

Compatible with all MIXPAC™ F-System cartridges between 940mL and 1500 mL

### Technical advantages

### User Benefits

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Lightweight design

Fatigue-free working

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Integrated air-flow

User-friendly ease of use

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Dual-stage-trigger

Exact handling of the air-flow with one hand

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## Системы покрытия MixCoat Flex SULZER

2-K coating repair works are often complicated, especially with difficult to reach areas such as bilges in ships, pipelines and steel constructions. This leads to high labor costs and a huge amount of waste material. MixCoat™ Spray offers a solution with maximum flexibility to reach all areas. This system reduces waste material and saves labor.



"MixCoat™ Flex" for flexible and economical 2-K coating repair and maintenance works:

This universal system for 2-K coatings offers various application methods. For difficult to reach

areas, MixCoat™ Flex offers a real benefit. It is extremely robust, can be mounted on the wall or simply placed on the floor. This stand-alone system only requires an air connection.

Animation on the functionality of Sulzer MixCoat Flex system from Sulzer Mixpac for 2-K protective coating repair jobs

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MixCoat Flex system is characterized by a flexible handling when applying the 2-K material.

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The actuator is combined with a hose to guarantee maximum flexibility.

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#### **Assortment:**

- Optional with Spray, Roller or Brush application
- Variable hose length
- Compatible with all MIXPAC™ F-System cartridges between 940mL and 1500 mL
- Easy changing between various mixing ratios

#### **Technical advantages**

#### **User Benefits**

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Maximum flexibility

Easy access with difficult to reach areas  
Shorter working times  
Less waste material  
Ecological and economical solution

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Spray, Brush and Roller application

Easy use of different application options  
Optimal application, according to the situation  
Shorter working times

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Robust design

Minimum maintenance needed

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## **Картриджи MixCoat SULZER**

**For applications where large volumes of 2-K materials are dispensed at one time, Sulzer Mixpac offers cartridges with volumes between 940 and 1500 mL in various mixing ratios. The cartridges fit all MixCoat™ application systems.**

**High Volume cartridges of MIXPAC™ F-System**



- Especially designed for the use with MixCoat™ Systems
- Same technology as the well proven MIXPAC™ F-System
- Separate outlets to avoid cross contamination

MIXPAC F-System cartridge with high volumes up to 1500 mL.

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#### Volumes:

- 1500 mL, 1:1
- 1125 mL, 2:1
- 1000 mL, 3:1
- 940 mL, 4:1

#### User Benefits:

- Precise metering - consistent dispense
- Safe and fast filling of cartridges
- Safe storage and application of 2-K material up to +40°C
- Excellent mixing results
- No cross contamination

For more details please visit the [MIXPAC™ F-System site](#) on our homepage.

## Диспенсер SULZER

**Sulzer Mixpac's COX dispensers are the market-leading brand for handheld sealant and adhesive dispensers. In combination with Sulzer Mixpac's strong position as a technology leader and system provider, we offer a complete product range of mixing, dosing, and application systems.**



COX sells quality manual, pneumatic, and cordless one- and two-component dispensers for industrial and construction applications under the brand COX.

This acquisition together with acquiring MK in 2013 strengthens the position of Sulzer's position as technology leader and one of the world leading solution providers in the area of mixing, dosing, and application systems.

## Центробежные насосы НРН, НРЛ SULZER

**The НРН and НРЛ are multistage ring section pumps, designed for operation at two or four pole motor speed. They are suitable for pumping clear or slightly polluted water with abrasive particles.**



#### Main benefits

- Split bearing housing for easy maintenance
- Robust construction for harsh mining conditions

- Condition monitoring capabilities
- Specialized wear coating for extended operating life
- Forged shaft ensures stability and prevents distortion

### Main applications

- Mine dewatering
- Water transport
- Energy recovery capabilities (reverse running as a turbine)

### Key characteristics HPH

<b>Capacities</b>	130 to 1,000 m <sup>3</sup> /h / 680 to 5,000 USgpm
<b>Heads</b>	120 to 1,800 m / 600 to 5,000 feet
<b>Pressures</b>	180 bar / 2,610 psi
<b>Temperatures</b>	up to 105°C / up to 220°F

### Performance Range

### Key characteristics HPL

<b>Capacities</b>	36 to 1,000 m <sup>3</sup> /h / 170 to 5,000 USgpm
<b>Heads</b>	40 to 400 m / 190 to 1,300 feet
<b>Pressures</b>	40 bar / 560 psi
<b>Temperatures</b>	up to 105°C / up to 220°F

### Performance Range

## Насосы самовсасывающие LD, ND SULZER

The MCD80 LD-185 is a low head pump with a maximum head of 29 meters (94 ft) and max flow of 144 m<sup>3</sup>/h (634 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.

### Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard



- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

### Product information

End suction, single stage, centrifugal pump, 3 vane, open impeller

Suction x discharge 80 x 80 mm / 3 x 3 in

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Max flow 40 l/s / 634 USgpm / 144 m<sup>3</sup>/h

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Max head 29 m / 94 ft

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Solids Handling 80 mm / 3,1 in

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Dry weight 1000 kg / 2205 lbs

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Flow @ BEP1 26 l/s / 410 USgpm / 95 m<sup>3</sup>/h

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Pressure @ BEP2 21 m / 70 ft

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Impeller Diameter 185 mm

**The MCD100 LD-243 is a low head pump with a maximum head of 54 meters (175 ft) and max flow of 240 m<sup>3</sup>/h (1054 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

## Product information

End suction, single stage, centrifugal pump, 2 vane, open impeller

Suction x discharge 100 x 100 mm / 4 x 4 in

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Max flow 67 l/s / 1054 USgpm / 239 m<sup>3</sup>/h

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Max head 54 m / 175 ft

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Solids Handling 45 mm / 1,8 in

---

Dry weight 1050 kg / 2315 lbs

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Flow @ BEP1 47 l/s / 745 USgpm / 170 m<sup>3</sup>/h

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Pressure @ BEP2 33 m / 110 ft

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Impeller Diameter 243 mm

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**The MCD150 LD-285 is a low head pump with a maximum head of 60 meters (197 ft) and max flow of 625 m<sup>3</sup>/h (2750 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

## Product information

End suction, single stage, centrifugal pump, 2 vane, open impeller



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Suction x discharge 150 x 150 mm / 6 x 6 in

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Max flow 174 l/s / 2750 USgpm / 625 m<sup>3</sup>/h

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Max head 60 m / 197 ft

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Solids Handling 80 mm / 3,1 in

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Dry weight 1510 kg / 3329 lbs

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Flow @ BEP1 127 l/s / 2015 USgpm / 455 m<sup>3</sup>/h

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Pressure @ BEP2 40 m / 130 ft

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Impeller Diameter 285 mm

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**The MCD150 LD-255 has a max head of 33 meters (108 ft) and max flow of 507 m<sup>3</sup>/h (2232 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 2 vane, open impeller

---

Suction x discharge 150 x 150 mm / 6 x 6 in

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Max flow 141 l/s / 2232 USgpm / 507 m<sup>3</sup>/h

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Max head	33 m / 108 ft
Solids Handling	80 mm / 3,1 in
Dry weight	1160 kg / 2557 lbs
Flow @ BEP1	90 l/s / 1425 USgpm / 325 m <sup>3</sup> /h
Pressure @ BEP2	22 m / 70 ft
Impeller Diameter	255 mm

**The MCD220 LD-320 is a low head/medium flow pump with a maximum head of 54 meters (177 ft) and max flow of 732 m<sup>3</sup>/h (3221 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 2 vane, open impeller

Suction x discharge 200 x 200 mm / 8 x 8 in

Max flow	203 l/s / 3221 USgpm / 732 m <sup>3</sup> /h
Max head	54 m / 177 ft

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Solids Handling 80 mm / 3,1 in

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Dry weight 1620 kg / 3571 lbs

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Flow @ BEP1 150 l/s / 2380 USgpm / 540 m<sup>3</sup>/h

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Pressure @ BEP2 30 m / 100 ft

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Impeller Diameter 320 mm

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**The MCD250 LD-380 is a low head/high flow pump with a maximum head of 60 meters (197 ft) and max flow of 1094 m<sup>3</sup>/h (4818 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 2 vane, semi- open impeller

Suction x discharge 250 x 200 mm / 10 x 8 in

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Max flow 304 l/s / 4818 USgpm / 1094 m<sup>3</sup>/h

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Max head 60 m / 197 ft

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Solids Handling 60 mm / 2,4 in

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Dry weight	51000 kg / 11023 lbs
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Flow @ BEP1	225 l/s / 3565 USgpm / 810 m <sup>3</sup> /h
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Pressure @ BEP2	36 m / 115 ft
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Impeller Diameter	380 mm
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**The MCD300 LD-536G is a low head/high flow pump with a maximum head of 60 meters (195 ft) and max flow of 1595 m<sup>3</sup>/h (7022 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 2 vane, open impeller

Suction x discharge 300 x 300 mm / 12 x 12 in

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Max flow	443 l/s / 7022 USgpm / 1595 m <sup>3</sup> /h
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Max head	60 m / 195 ft
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Solids Handling	90 mm / 3,5 in
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Dry weight	7370 kg / 16248 lbs
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Flow @ BEP1      360 l/s / 5705 USgpm / 1295 m<sup>3</sup>/h

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Pressure @ BEP2    33 m / 105 ft

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Impeller Diameter   536 mm

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**The MCD130 LD-435 is a medium pump with a maximum head of 88 meters (289 ft) and max flow of 244 m<sup>3</sup>/h (1073 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 3 vane, semi-open impeller

Suction x discharge   150 x 150 mm / 6 x 6 in

---

Max flow              68 l/s / 1073 USgpm / 244 m<sup>3</sup>/h

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Max head              88 m / 289 ft

---

Solids Handling      30 mm / 1,2 in

---

Dry weight            2000 kg / 4409 lbs

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Flow @ BEP1        52 l/s / 825 USgpm / 185 m<sup>3</sup>/h

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Pressure @ BEP2    75 m / 245 ft

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Impeller Diameter 435 mm

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**The MCD150 LD-394 is a medium pump with a maximum head of 100 meters (328 ft) and max flow of 688 m<sup>3</sup>/h (3027 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 2 vane, semi-open impeller

Suction x discharge 200 x 150 mm / 8 x 6 in

---

Max flow 191 l/s / 3027 USgpm / 688 m<sup>3</sup>/h

---

Max head 100 m / 328 ft

---

Solids Handling 50 mm / 2,0 in

---

Dry weight 5600 kg / 12346 lbs

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Flow @ BEP1 140 l/s / 2220 USgpm / 505 m<sup>3</sup>/h

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Pressure @ BEP2 70 m / 230 ft

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Impeller Diameter 394 mm

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**The MCD220 LD-395 is a medium head pump with a maximum head of 69 meters (226 ft) and max flow of 731 m<sup>3</sup>/h (3219 USgpm). Our self priming pumps are design with harsh**

**environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 4 vane, semi-open impeller

Suction x discharge 200 x 200 mm / 8 x 8 in

---

Max flow 203 l/s / 3219 USgpm / 731 m<sup>3</sup>/h

---

Max head 69 m / 226 ft

---

Solids Handling 50 mm / 2,2 in

---

Dry weight 5760 kg / 12699 lbs

---

Flow @ BEP1 171 l/s / 2710 USgpm / 615 m<sup>3</sup>/h

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Pressure @ BEP2 58 m / 190 ft

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Impeller Diameter 395 mm

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**The MC300 ND-490 is a medium head pump with a maximum head of 89 meters (292 ft) and max flow of 1908 m<sup>3</sup>/h (8401 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

## Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

## Product information

End suction, single stage, centrifugal pump, 2 vane fully open impeller

Suction x discharge 300 x 300 mm / 12 x 12 in

---

Max flow 530 l/s / 8401 USgpm / 1908 m<sup>3</sup>/h

---

Max head 89 m / 292 ft

---

Solids Handling 90 mm / 3,5 in

---

Dry weight 10350 kg / 22818 lbs

---

Flow @ BEP1 400 l/s / 6340 USgpm / 1440 m<sup>3</sup>/h

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Pressure @ BEP2 45 m / 150 ft

---

Impeller Diameter 490 mm

**The MCD300 ND-510 has a max head of 105 meters (345 ft) and max flow of 1995 m<sup>3</sup>/h (8786 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

## Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage



- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

#### Product information

End suction, single stage, centrifugal pump, 2 vane, fully open impeller

Suction x discharge 300 x 300 mm / 12 x 12 in

---

Max flow 554 l/s / 8786 USgpm / 1995 m<sup>3</sup>/h

---

Max head 105 m / 345 ft

---

Solids Handling 90 mm / 3,5 in

---

Dry weight 5550 kg / 12236 lbs

---

Flow @ BEP1 450 l/s / 7135 USgpm / 1620 m<sup>3</sup>/h

---

Pressure @ BEP2 55 m / 180 ft

---

Impeller Diameter 510 mm

**The MCD80 HD-325 has a max head of 75 meters (245 ft) and max flow of 97 m<sup>3</sup>/h (428 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

#### Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

## Product information

End suction, single stage, centrifugal pump, 3 vane, open impeller

Suction x discharge 80 x 80 mm / 3 x 3 in

---

Max flow 27 l/s / 428 USgpm / 97 m<sup>3</sup>/h

---

Max head 75 m / 245 ft

---

Solids Handling 25 mm / 1,0 in

---

Dry weight 1510 kg / 3329 lbs

---

Flow @ BEP1 21 l/s / 340 USgpm / 75 m<sup>3</sup>/h

---

Pressure @ BEP2 67 m / 220 ft

---

Impeller Diameter 325 mm

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**The MCD130 HD-465 has a max head of 134 meters (439 ft) and max flow of 300 m<sup>3</sup>/h (1322 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

### Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

## Product information

End suction, single stage, centrifugal pump, 3 vane, semi-open impeller

Suction x discharge 150 x 150 mm / 6 x 6 in

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Max flow 83 l/s / 1322 USgpm / 300 m<sup>3</sup>/h

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Max head 134 m / 439 ft

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Solids Handling 30 mm / 1,2 in

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Dry weight 5550 kg / 12236 lbs

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Flow @ BEP1 66 l/s / 1045 USgpm / 240 m<sup>3</sup>/h

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Pressure @ BEP2 112 m / 365 ft

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Impeller Diameter 465 mm

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**The MCD160 HD-456 has a max head of 140 meters (460 ft) and max flow of 670 m<sup>3</sup>/h (2950 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

## Product information

End suction, single stage, centrifugal pump, 2 vane, semi-open impeller

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Suction x discharge 200 x 150 mm / 8 x 6 in

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Max flow 186 l/s / 2950 USgpm / 670 m<sup>3</sup>/h

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Max head 140 m / 460 ft

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Solids Handling 65 mm / 2,6 in

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Dry weight 5600 kg / 12346 lbs

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Flow @ BEP1 136 l/s / 2155 USgpm / 490 m<sup>3</sup>/h

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Pressure @ BEP2 95 m / 310 ft

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Impeller Diameter 456 mm

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**The MCD220 HD-432 has a max head of 114 meters (372 ft) and max flow of 924 m<sup>3</sup>/h (4070 USgpm). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 2 vane, semi-open impeller

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Suction x discharge 200 x 200 mm / 8 x 8 in

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Max flow 257 l/s / 4070 USgpm / 924 m<sup>3</sup>/h

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Max head	114 m / 372 ft
Solids Handling	55 mm / 2,2 in
Dry weight	6630 kg / 14617 lbs
Flow @ BEP1	220 l/s / 3485 USgpm / 790 m <sup>3</sup> /h
Pressure @ BEP2	95 m / 310 ft
Impeller Diameter	432 mm

**The MCD100 SD-560 has a max head of 185 meters (606 ft) and max flow of 294 m<sup>3</sup>/h (1297 ft). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 5 vane, closed impeller

Suction x discharge 150 x 100 mm / 6 x 4 in

Max flow	82 l/s / 1297 USgpm / 294 m <sup>3</sup> /h
Max head	185 m / 606 ft
Solids Handling	822 mm / 0,9 in

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Dry weight	5870 kg / 12941 lbs
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Flow @ BEP1	66 l/s / 1045 USgpm / 240 m <sup>3</sup> /h
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Pressure @ BEP2	150 m / 500 ft
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Impeller Diameter	560 mm
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**The MCD150 SD-560 has a max head of 184 meters (603 ft) and max flow of 539 m<sup>3</sup>/h (2374 ft). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 5 vane, closed impeller

Suction x discharge 200 x 150 mm / 8 x 6 in

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Max flow	150 l/s / 2374 USgpm / 539 m <sup>3</sup> /h
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Max head	184 m / 603 ft
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Solids Handling	43 mm / 1,7 in
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Dry weight	6750 kg / 14881 lbs
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Flow @ BEP1	125 l/s / 1980 USgpm / 450 m <sup>3</sup> /h
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Pressure @ BEP2 154 m / 505 ft

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Impeller Diameter 560 mm

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**The MCD200 SD-636 has a max head of 175 meters (574 ft) and max flow of 742 m<sup>3</sup>/h (3265 ft). Our self priming pumps are design with harsh environments in mind, heavy-duty construction, excellent L3/D4 ratio and the right materials of construction.**

Main benefits

- Dry self prime and reprime
- Ductile iron volute with 316 SS impeller/wearplates standard
- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Suction lifts to 8.5 meters
- Replaceable wear parts

Product information

End suction, single stage, centrifugal pump, 5 vane, closed impeller

Suction x discharge 250 x 200 mm / 10 x 8 in

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Max flow 206 l/s / 3265 USgpm / 742 m<sup>3</sup>/h

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Max head 175 m / 574 ft

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Solids Handling 31 mm / 1,2 in

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Dry weight 9440 kg / 20812 lbs

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Flow @ BEP1 184 l/s / 2915 USgpm / 660 m<sup>3</sup>/h

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Pressure @ BEP2 153 m / 500 ft

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Impeller Diameter 636 mm

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## Шламовые насосы типа EMW SULZER

The EMW pump range has been designed considering historic field experience, coupled with the latest in fluid flow modeling technologies and finite element analysis, to create the latest in slurry pumping technology. The pump range offers high hydraulic efficiencies for optimized wear life performance in difficult solids handling applications.



### Main benefits

- Extra high durability
- Minimized total cost of ownership
- Low energy consumption due to high efficiency
- Easy and quick installation and maintenance
- Low spare cost due to high standardization between EMW-M and EMW-R

### Main applications

- Mining and mineral processing
- Aggregates (sand and gravel)
- Power (bottom ash, lime slurry for flue gas desulphurization(FGD))
- Food industry
- Waste water
- Chemical slurries

### Main design features

- Wide range of high quality materials (metallic as well as rubber)
- Optimized high efficiency hydraulics ensure high efficiency and minimized wear in the largest operating range
- Heavy-duty bearings offer LB10 bearing life of more than 50,000 hours
- Vertical design with EMW-R and EMW-M hydraulics available
- Fast and effective maintenance due to easy assembly and dismantling of main pump parts

### Key characteristics

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#### Capacities

EMW-R: up to 1,450 m<sup>3</sup>/h / 6,385 USgpm

EMW-M: up to 4,000 m<sup>3</sup>/h / 17,600 USgpm

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#### Heads

EMW-R: up to 55 m / 180 ft

EMW-M: up to 95 m / 312 ft

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#### Pressures

EMW-R: up to 14 bar / 203 psi

EMW-M: up to 16 bar / 232 psi

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**Temperatures**

EMW-R: up to 110 °C / 230 °F

EMW-M: up to 110 °C / 230 °F

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**Maximum speed of rotation**

EMW-R: up to 2600 rpm

EMW-M: up to 3000 rpm

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## Смазочные системы API SULZER

The lube oil systems are custom engineered to meet the industry lubrication needs.

Manufactured and tested as per Aramco specification 32-SAMSS-013, API 614, API 611, API 610, API 618 as well as manufacturer's standards.

**Main benefits**

- Reliable operating system
- Reducing expensive downtime of the rotating equipment.
- Highly efficient lubrication system

**Main applications**

- High pressure pumps
- Turbines
- Centrifugal compressors
- Oil engines
- Electric motors
- Oil & Gas industries
- Power industries

**Main design features**

- Compact reservoir design
- Optimal instrumentation to ensure reliable operation of equipment.
- High efficiency coolers

**Key characteristics**

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**Capacities**5 LPM to 2000 LPM

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**Filtration Rating**Down to 5 Microns

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**Material**Carbon steel and Stain less steel

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**По вопросам продаж и поддержки обращайтесь:**

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