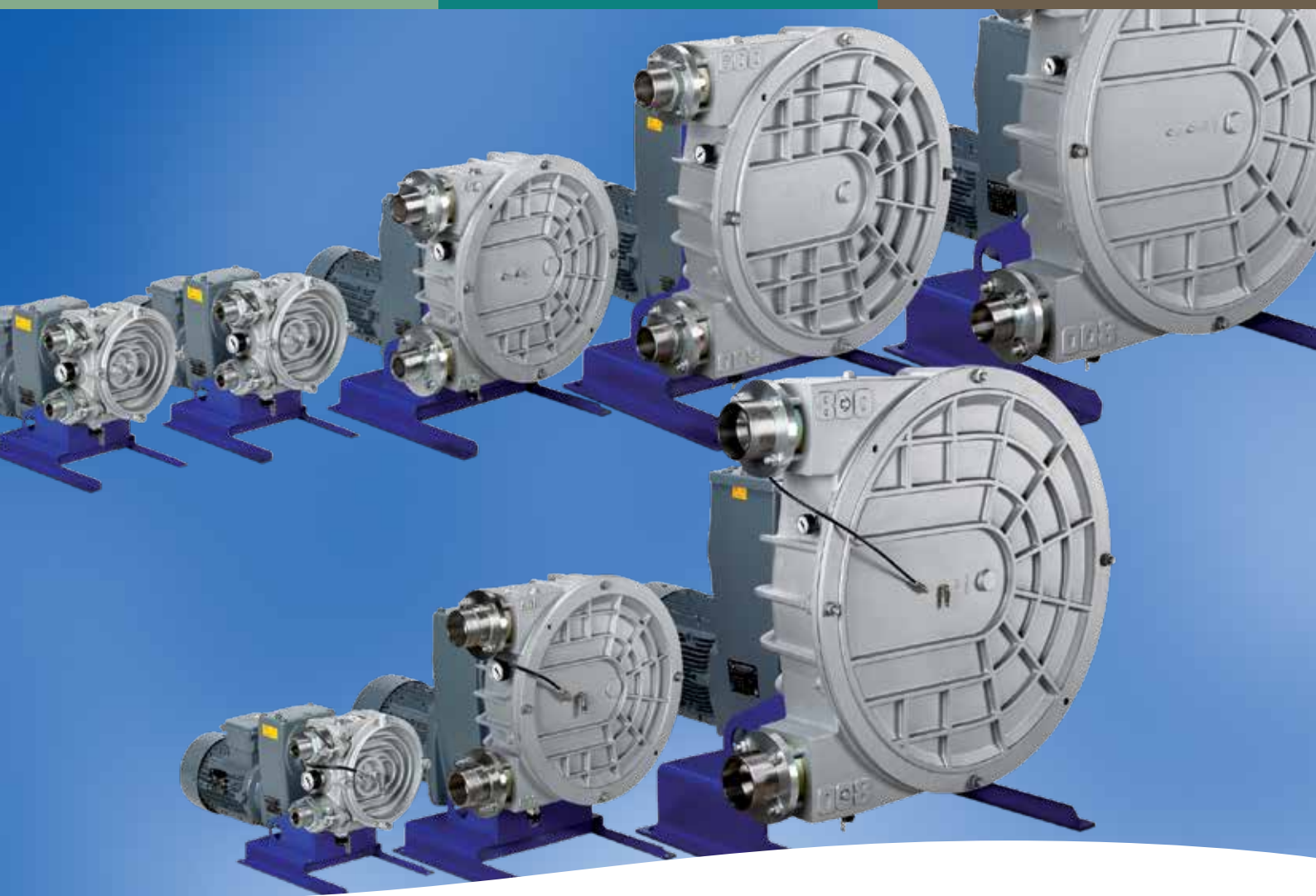


ELRO®

brands you trust.



Peristaltic Pumps Series IP, XP and M300

CRANE

Crane ChemPharma & Energy

www.elropumps.com
www.cranecpe.com

Über ELRO



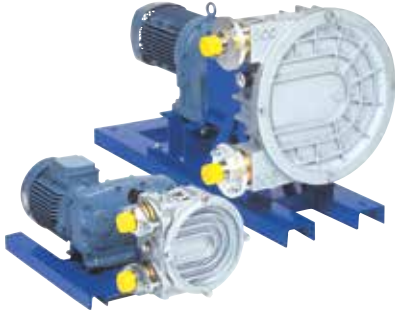
Founded in Düsseldorf in 1961, Crane Process Flow Technologies GmbH has been a competent and experienced supplier of ELRO® peristaltic pumps, DEPA air-operated double diaphragm pumps and REVO pneumatic actuators for many years. Our products are characterized by a wide variety of materials and models for safe operation. In addition, we offer individual solutions for specific and demanding industrial applications. ELRO® peristaltic pumps of the IP, XP and M300 series have been developed and manufactured in Düsseldorf since 1968. These pumps enjoy high recognition among experts due to their first-class quality and innovative design.

Our Products & Solutions

- Peristaltic pumps IP, XP and M300
- Original spare parts
- Spare parts kits
- Global pump service



Series IP



Designed for pumping abrasive, long fibrous or aggressive fluids as well as high viscosity fluids with low shear strength. Dry-running safe without seals and valves, for stationary applications in the harshest conditions.

Technische Data :

Fluid Connections : DN25-DN80 (1"-3")
 Flow rate : 0,1 to 46 m³/h
 Temperature Limits : -20°C to + 80°C
 Max Pressure : max. 13 bar
 Pump Housing : Aluminium
 Connections : Edelstahl, PP elektr. leitfähig (Standard BSP oder Flansch)
 Hose Material : NR, NBR, Hypalon, EPDM
 Special Features : Dry self-priming up to 9.5m
 Dry-running safe
 Integrated vacuum system (patented) and early warning system

Approvals & Standards

Hose materials approved according to FDA requirements (NR, NBR), BS EN ISO 9001

Applications

- Chemical industry
- Breweries
- Power plants
- Waste and disposal industry
- Paint and varnish industry
- Ceramic and porcelain industry
- Construction industry

Series XP



ELRO®-hose pumps of the XP series are characterized by their high flow rate at low speed. The large dimensioned hose cross-section enables pumping of media with high solids content.

Technische Data :

Fluid Connections : DN40-DN 100 (1 1/2"-4")
 Flow rate : 0,6 bis 30 m³/h
 Temperature Limits : -20°C bis + 80°C
 Pump Housing : max. 13 bar
 Fluid Connections : Aluminium
 Connections : Stainless Steel, PP
 BSP(M) as standard with option of flange
 Hose Material : NR, NBR, Hypalon,
 Special Features : Dry self-priming up to 9.5m
 Dry-running safe
 Integrated vacuum system (patented) and early warning system

Approvals & Standards

Hose materials approved according to FDA requirements (NR, NBR), BS EN ISO 9001

Applications

- Chemical industry
- Breweries
- power plants
- Waste and disposal industry
- Paint and varnish industry
- Ceramic and porcelain industry
- Construction industry

Series M300



For economical pumping of slurries, chemicals and contaminated media. Mobile, compact all-purpose pumps with high pumping speed and good flow rate. Can be combined in many ways with different drive units and accessories.

Technische Data :

Fluid Connections : DN50 (2")
 Flow rate : Up to 20m³/h
 Temperature Limits : -20°C to + 80°C
 Delivery Pressure : 2 bar
 Pump Housing : Aluminium
 Fluid Connections : 2", Aluminium, Stainless steel, PP, Bronze with Camlock coupling system
 NR, NBR, Hypalon, dry self-priming up to 9.5m, dry-running safe, with integrated vacuum system

Approvals & Standards

FDA approved materials on request, BS EN ISO 9001

Drive Unit Options

Hydraulic, Electric (1 & 3 Phase), Water Turbine, Diesel & Petrol

Applications

- Chemical industry
- Fire departments, rescue services
- Petroleum industry
- Paint and varnish industry
- Power plants
- Ports and ships
- Oil stations and tankers
- Airports

For more than 15 years, ELRO® peristaltic pumps - whether as stationary units, for example, as mobile systems for hazardous material applications - have established themselves as indispensable products for industry in the positive displacement pump sector. Every day, these pumps prove their reliability and performance worldwide in harsh environments and under the most difficult operating conditions. Over the decades, intensive research, development and the use of new materials have completed the range of ELRO® peristaltic pumps. The range includes the widest selection of materials for peristaltic hoses of all hose pump manufacturers. During the manufacturing process, the quality demands of industrial customers as well as ease of operation and maintenance are key. The latest production methods, inspection and test systems for quality assurance and documented process sequences in accordance with DIN EN ISO 9001 guarantee the consistently outstanding quality of our ELRO® peristaltic pumps. Thanks to the wide product range, ELRO® pumps can meet almost all customer requirements and needs, even for extremely difficult pumping processes. The long tradition, combined with the resulting experience and the available pump / application know-how, make customer and market specific solutions possible. In the future, too, the ELRO® peristaltic pump program will maintain its top position among users through targeted adaptations to the latest technologies, modern manufacturing methods and reliable service.

Advantages at a Glance :

- Ideal for abrasive, viscous and shear-sensitive media
- Gentle conveying of liquid or shear sensitive products
- Constant flow rates due to vacuum support
- Dry-running safe
- Integrated early warning system (IP series)
- Conveying of media containing solids
- Straight, free flow passage and easy cleaning
- No dynamic and pressure loaded seals
- M300 Series is mobile & easy to transport
- Infinitely variable flow rate is possible with motor control
- Discharge pressures up to 13 bar for IP and XP series
- Dry self-priming up to 9.5m
- Easy to operate and service, only one wearing part
- Can be used in potentially explosive atmospheres (Ex version)



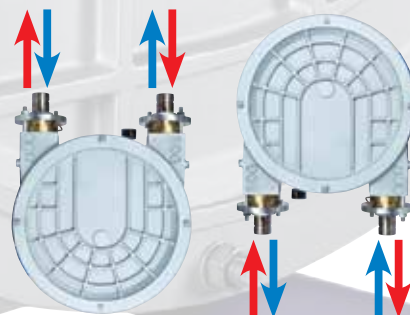
Installation Options

- ❶ ELRO peristaltic pumps and accessories are versatile and can be used independently of a specific installation site??
- ❷ Stationary applications are standard, as is use as a mobile or wheeled unit that can be transported to the various application areas.
- ❸ The standard factory version of the pump design is the combination: connections on the left - suction side top, discharge side bottom (Red arrows).
- ❹ ELRO® pumps of the IP series can be adapted to existing pipe work or space restrictions by changing the connection orientation. Due to the prepared additional housing bores, only vent valves have to be repositioned and the suction and pressure side stainless steel connections for the vacuum system have to be changed according to the desired condition.
- ❺ The XP series is designed to run in either direction as standard.



Fluid connections – Left (Standard)

Fluid connections - Right



Fluid connections - Top

Bottom connections (only for full bore IP hoses)

ELRO[®] Peristaltic Pumps. Series IP and XP

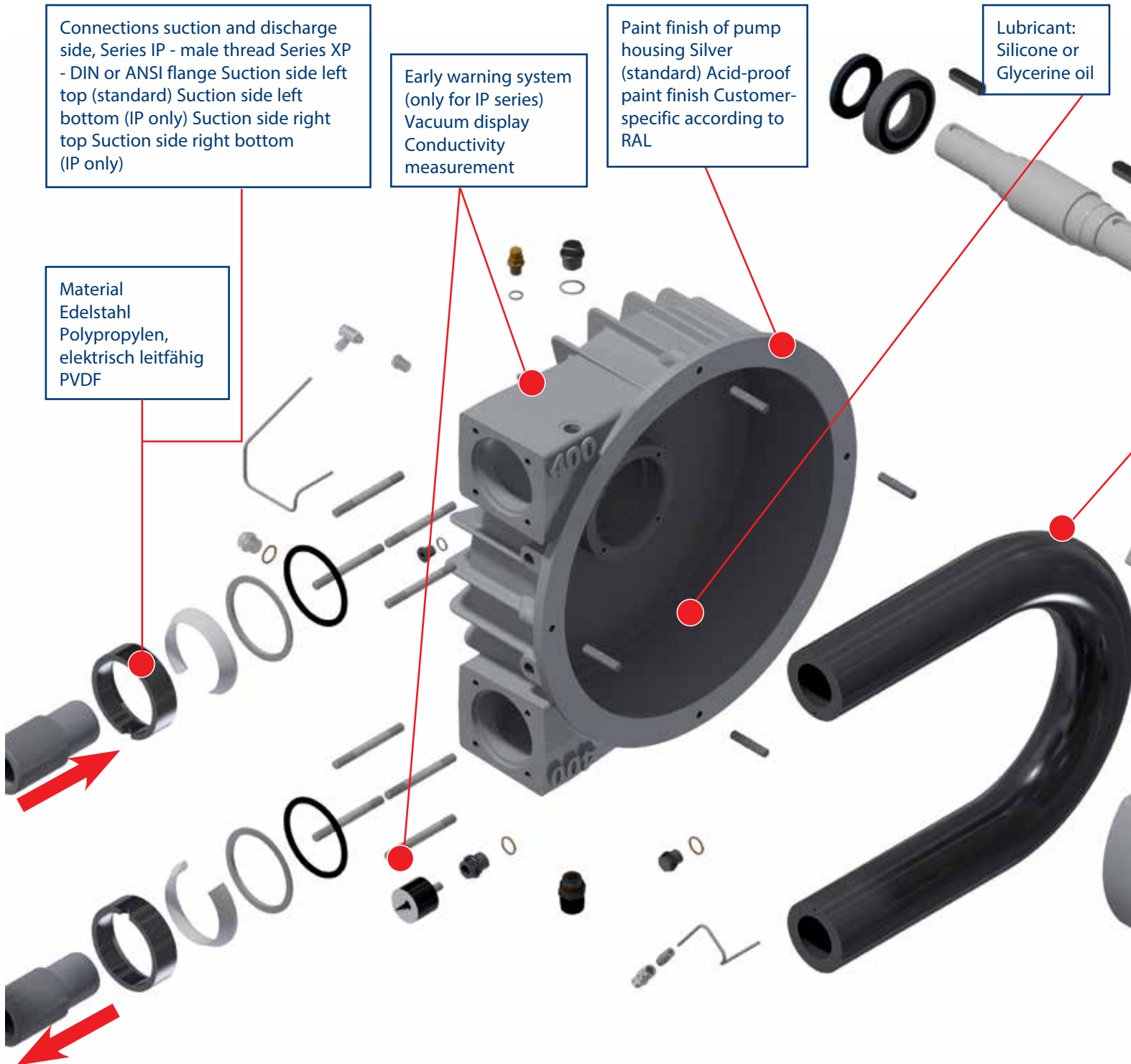
Connections suction and discharge side, Series IP - male thread Series XP - DIN or ANSI flange Suction side left top (standard) Suction side left bottom (IP only) Suction side right top Suction side right bottom (IP only)

Early warning system (only for IP series) Vacuum display Conductivity measurement

Paint finish of pump housing Silver (standard) Acid-proof paint finish Customer-specific according to RAL

Lubricant: Silicone or Glycerine oil

Material
Edelstahl
Polypropylen,
elektrisch leitfähig
PVDF



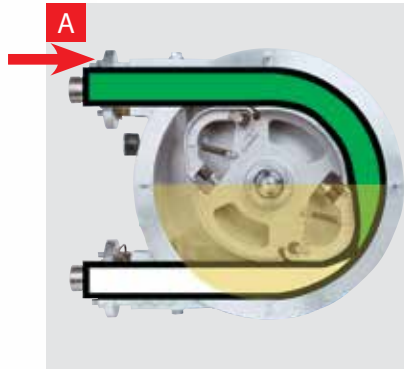
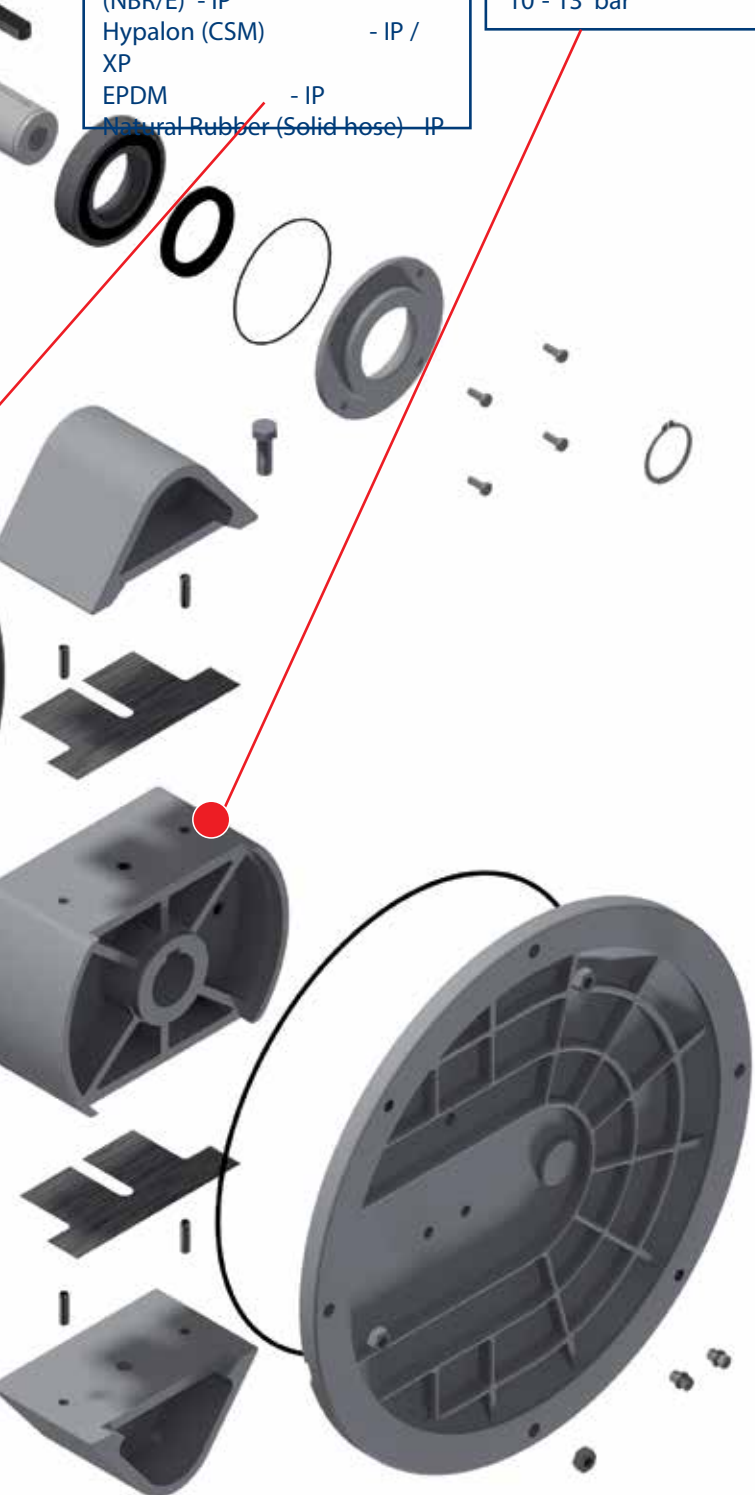
Flexible, Modular System

Function IP and XP

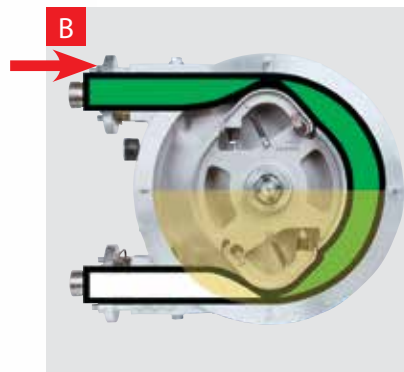
Hose Material	
Natural Rubber (NR)	- IP / XP
Nitrile Natural Rubber	- IP
FDA (NR)	- IP / XP
(NBR)	
Electro-conductive Nitrile (NBR/E)	- IP
Hypalon (CSM)	- IP / XP
EPDM	- IP
Natural Rubber (Solid hose)	- IP

Pressure Stages

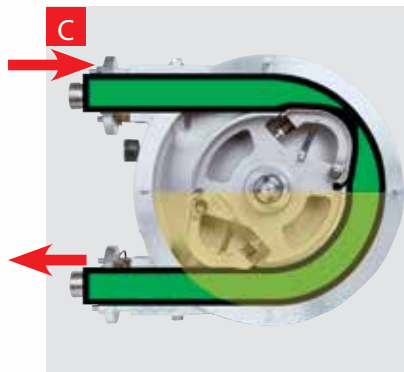
0 - 2 bar
2 - 4 bar
4 - 6 bar
6 - 8 bar
8 - 10 bar
10 - 13 bar



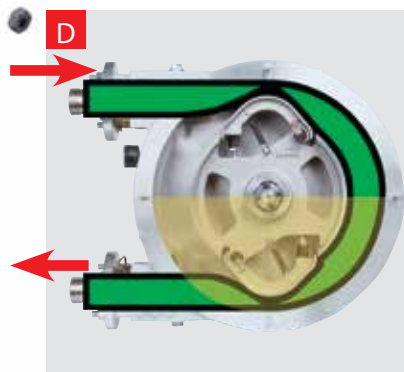
The rotor rotates inside the pump housing filled with lubricant and compresses the delivery hose with the sliding shoe (1). This process creates a hermetic separation between the suction and discharge sides.



After the second sliding shoe (2) has compressed the hose, a completely enclosed delivery space remains. This available volume corresponds exactly to half the flow rate per revolution. The additional vacuum built up in the pump housing supports the restoring force of the hose to restore its original full cross-section.



The rotation of the rotor displaces the medium in the hose towards the outlet on the pressure side. With each subsequent opening of the hose, a vacuum is created on the suction side, which ensures constant suction. This can also be done in an empty state („dry priming“).



With each rotation of the rotor, medium is constantly supplied (displaced) to the outlet on the pressure side via the two sliding shoes, while the same flow rate is drawn into the pump on the suction side by the vacuum..

ELRO-Schlauchpumpen, Serie M (Mobile Schlauchpumpe)

Hose materials
Natural rubber (NR)
Nitrile (NBR)
CSM Electrically conductive

Connections
Camlock Aluminium
Electro-conductive
Polypropylene
Stainless steel
Bronze

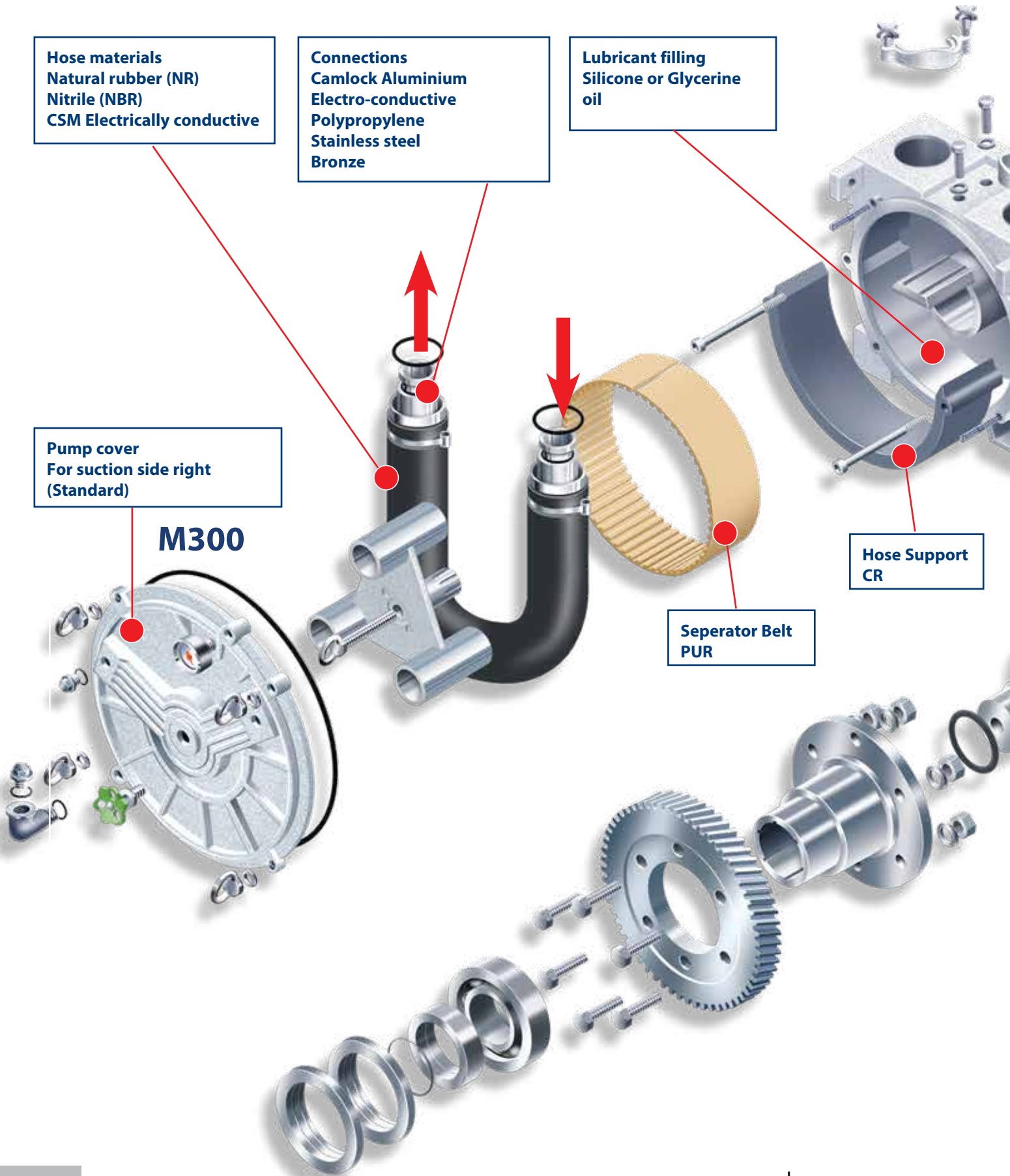
Lubricant filling
Silicone or Glycerine
oil

Pump cover
For suction side right
(Standard)

M300

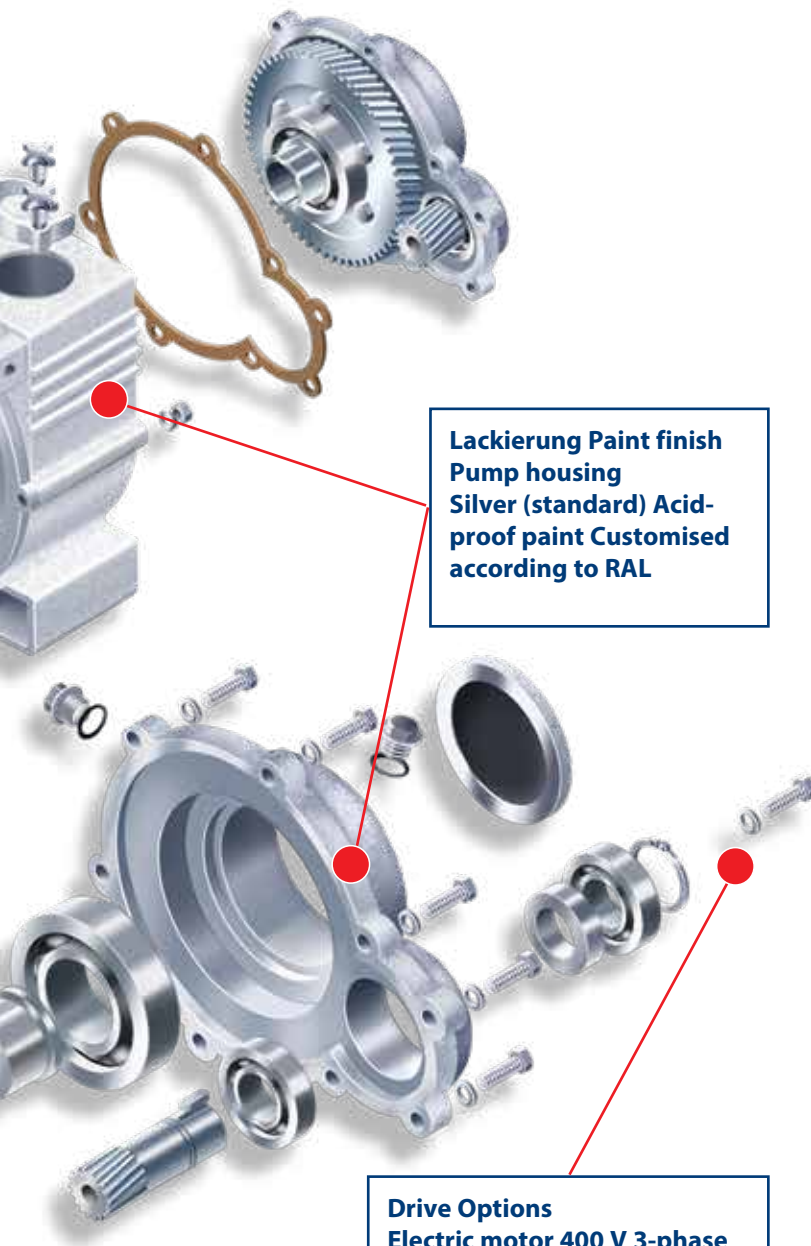
Hose Support
CR

Seperator Belt
PUR



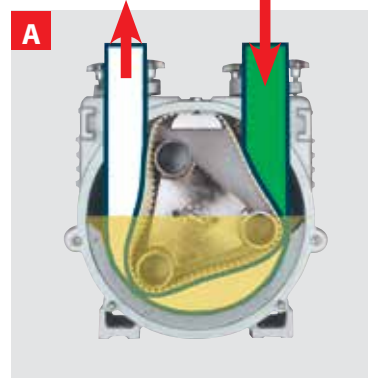
Kompakt, Mobil und Anpassungsfähig

Function Serie M (Mobile Peristaltic Pump)

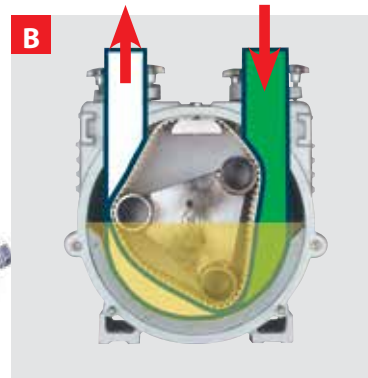


Lackierung Paint finish
Pump housing
 Silver (standard) Acid-proof paint Customised according to RAL

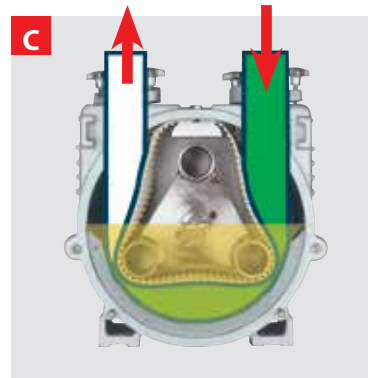
Drive Options
 Electric motor 400 V 3-phase
 Electric motor Ex version
 Petrol engine
 Diesel engine
 Hydraulic engine
 Pneumatic engine
 Water turbine



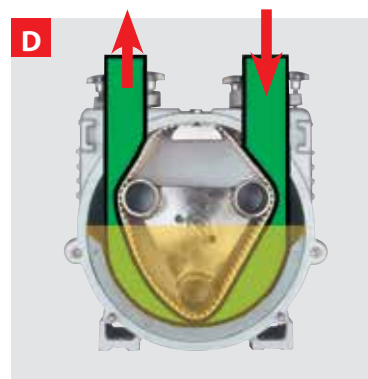
The rotor rotates within the firmly bolted separating part in the lubricant-filled pump housing. The precisely fitting separator divides the housing into two completely enclosed functional compartments. When the delivery hose is compressed, there is a hermetic separation between the suction and discharge sides.



Due to the rotation of the rotor, the air from the space on the suction side is displaced to the outside via the separating part through an additional channel in the pump cover. A corresponding vacuum builds up within a short time depending on the suction height. This additionally supports the restoring force of the hose to restore its original full cross-section.



CAfter the second sliding shoe has compressed the hose, a closed conveying space remains. This volume corresponds exactly to one third of the delivery rate per revolution. The rotation of the rotor displaces the medium in the hose towards the outlet on the pressure side. With each subsequent opening of the hose, a vacuum is created on the suction side, which ensures constant suction. This can also be done without the pumped medium ("dry priming").



With each rotation of the rotor, medium is constantly displaced to the discharge side via the sliding shoes, while the same flow rate is supplied on the suction side by the vacuum.

Model Type & Flow Rates

Design, delivery rate

The following factors must be taken into account for the optimum design of the mobile ELRO® M300 series hose pumps:-

- Pumped medium
- Delivery rate
- Suction and pressure conditions
- Duration of use per day

Place of use for motorisation Accessories with suitable couplings. The essential points for efficient, low-wear operation and long service life of the stationary peristaltic pumps of the IP and XP series are as follows:

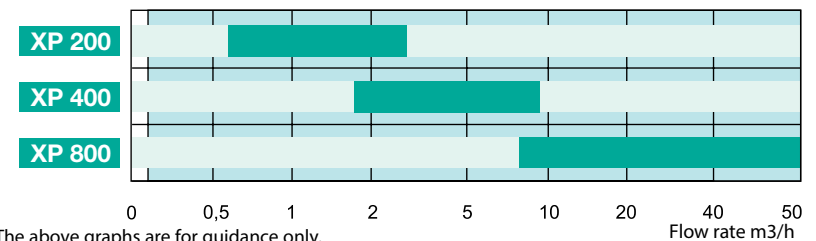
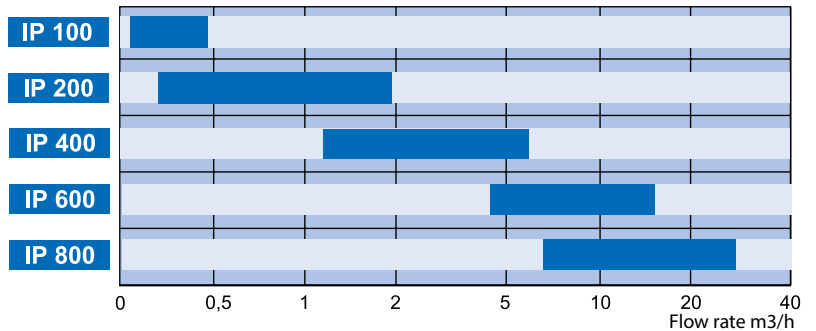
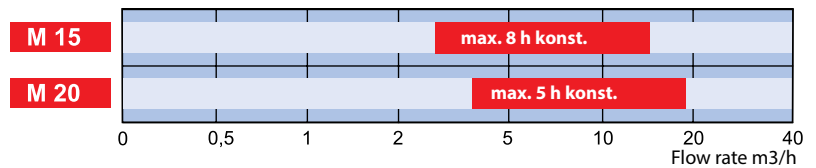
Flow rate \Leftrightarrow Speed

Medium temp. \Leftrightarrow elasticity decrease

Delivery pressure \Leftrightarrow hose crushing

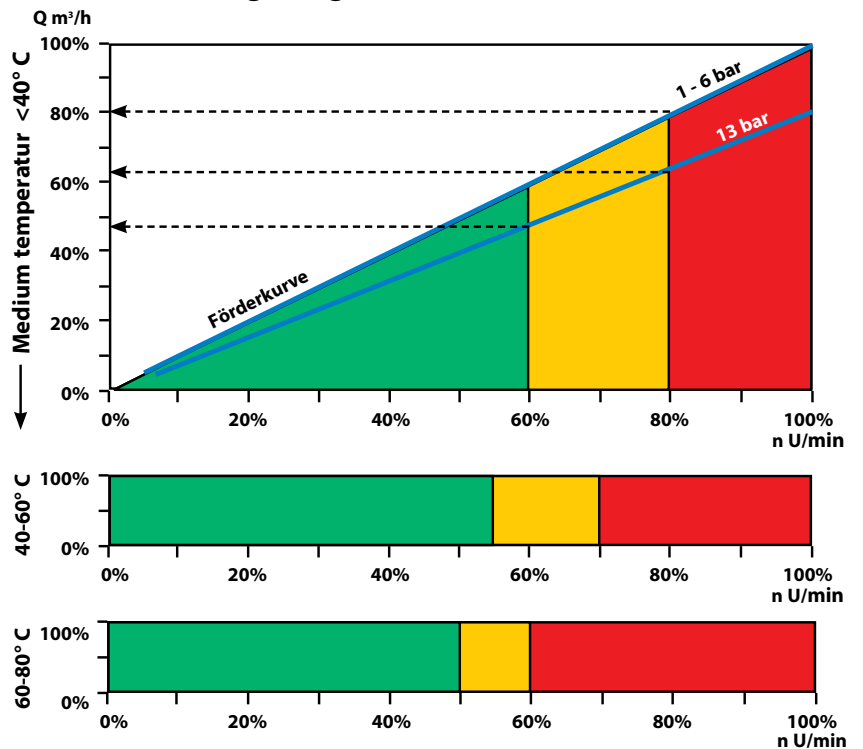
Operating time \Leftrightarrow Continuous operation / Inter- per day intermittent operation /

After selecting the duty point depending on the above parameters, a precise specification of the pump type can be made via the individual data sheets. According to the design diagrams, a type correction upwards or downwards may be necessary, taking into account the factors „operating time/day and medium temperature“. At medium temperatures $>40^{\circ}\text{C}$, a speed reduction is necessary to increase the hose service life.- Short-time operation (max. 4 h)- Intermittent operation (max. 12 h)- Continuous operation (24 h) Translated with www.DeepL.com/Translator (free version)



The above graphs are for guidance only.

Design diagrams for IP and XP series



Elastomere



Natural rubber

IP M300 XP

Natural rubber (FDA)

IP

Natural material, high polymer isoprene
Properties : Tensile strength, elastic,
resistant to cold, approved for use with
foodstuffs (FDA)

Application range : for abrasive media,
strongly diluted acids and alkalis
Temperature range : -20°C - +80°C

Resistance and temperature ranges can be found in
the separate resistance list.

For special applications, special solid fabric hoses are
also available for the IP series.

ELRO® hose pumps can be equipped with the right
delivery hose for almost any application. The large
selection of different hose materials is the result of
intensive research work and long-term tests.



Nitrile rubber (NBR)(FDA)

IP XP

Q Nitrile rubber (NBR)

M300

Mixed polymer of butadiene and
acrylonitrile

Properties : wear resistant, grease and oil
resistant

Range of application : for oily and fatty
media, alcohols
Temperature range : -10°C - +80°C

Hose production : All ELRO® delivery hoses are
machined on precision grinding machines after the
production process. This elaborate process ensures
that the service life of the hoses is considerably
longer than that of conventional hoses due to the
uniform surface and the same outer diameter.
In addition, uniform, constant delivery rates are
achieved for all pumps.



CSM

IP M300 XP

Hypalon (CSM)

Elastomer, formed by
polymerisation of chlorosulphonated
ethylene

Properties : chemical resistant, wear
resistant and electrically conductive (only
M300) Application : for acids and alkalis,
paints
Temperature range : -20°C - +80°C

Housing material : The pump housings of ELRO®
peristaltic pumps are made of aluminium. This more
complex manufacturing process compared to cast
steel or welded constructions offers the following

Advantages:

- Better heat dissipation to the outside
- Additional integration of cooling fins
- Vacuum-tight housing
- Reduction of wall thickness
- Compact design
- No corrosion
- Low weight



EPDM

IP

EPDM rubber by copolymerisation of
ethylene, propylene and diene Properties :
chemical resistant, good insulating
properties and weather resistance
Application range : for acids and alkalis,
hot water
Temperature range : -30°C - +80°C

ELRO®-Peristaltic Pump Series XP



ELRO® peristaltic pumps of the IP series are characterised by gentle pumping of liquid or viscous media. Versatile for use with abrasive, shear-sensitive, long-fibre and solids-containing fluids. As a result, they have established themselves over the years as a vital component in the pump pool of many operators.

The high delivery pressures of up to 13 bar in the standard versions also make ELRO® peristaltic pumps interesting for other pump technologies. Thanks to the five sizes, numerous hose materials, also approved for the food industry, as well as connection options, they can be individually adapted to suit numerous applications.

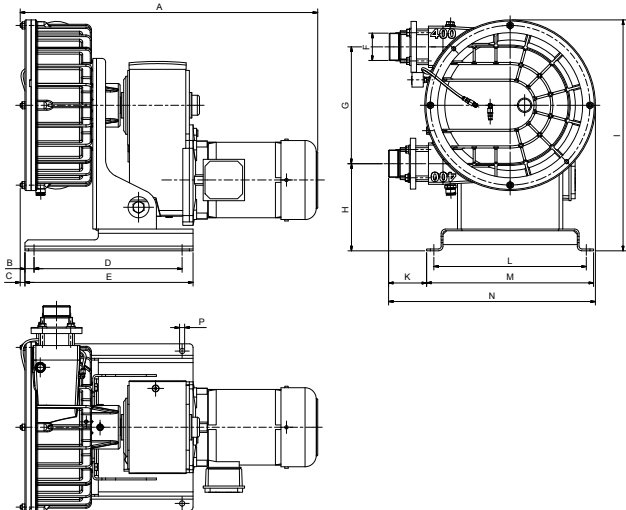
All ELRO® peristaltic pumps are equipped with a patented vacuum system as standard. This results in numerous economic and technical advantages such as

- Very good suction properties up to 9.5 m (no additional suction device necessary)
- Constant delivery rate over the entire service life of the hose
- Protection of the hose's own restoring forces
- Low reduction in delivery rate with highly viscous media
- Use as an early warning system for timely hose replacement

Typ	Förderleistung max.	Verdrängung pro Umdrehung	Förderdruck max.	Schlauch-Innendurchmesser	Drehzahl max.	Antriebsleistung min-max	Gewicht
	m ³ /h	l/U	bar	mm	U/min	kW	kg
IP 100	0,6	0,07	10	15	140	0,37 – 1,1	46
IP 200	1,9	0,22	13	30	140	0,55 – 1,5	52
IP 400	6,0	1,65	13	50	60	1,5 – 5,5	157
IP 600	16,0	4,45	13	60	60	3,0 – 11	348
IP 800	30	7,8	13	70	60	5,5 - 18,5	620

Abmessungen (mm)

Series IP/XP



Typ	Abmessungen mm			
	F	A	N	I
IP 100	G 1"	643	316	364
IP 200	G 1 1/4"	665	316	364
IP 400	G 2"	820	570	636
IP 600	G 2 1/2"	1128	809	821
IP800	G 3"	1366	1020	1059

Main Industries:

- Chemical industry
- Ceramic and porcelain industry
- Food and beverage industry
- Breweries
- Cosmetics and pharmaceutical industry
- Power Plants
- Paint and varnish industry
- Waste and disposal industry

The patented early warning system (see illustrations on the right 1,-) works as follows: Each hose is equipped with a small additional channel through which the existing air from the upper area of the pump housing is transported. This creates a vacuum in the sealed aluminium housing. In case of damage or normal wear of the hose, the vacuum drops.

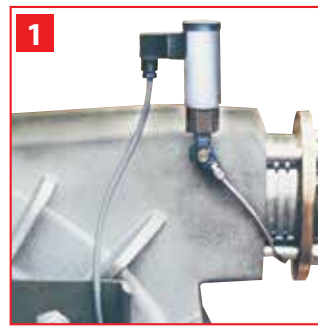
This early warning can be seen by the installed vacuum gauge or an additional acoustic or optical signal is triggered by the use of a vacuum switch.

This enables the pump's operational capability to be checked and optimum maintenance planning to be carried out. Unforeseen downtimes due to normal wear can thus be minimised.

Applications



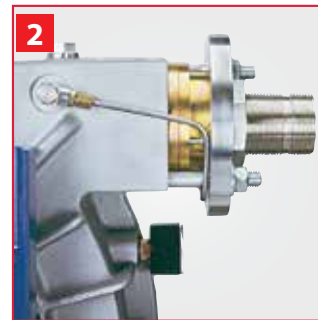
Waste Disposal Industry



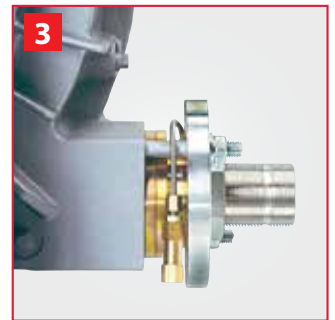
Early Warning System



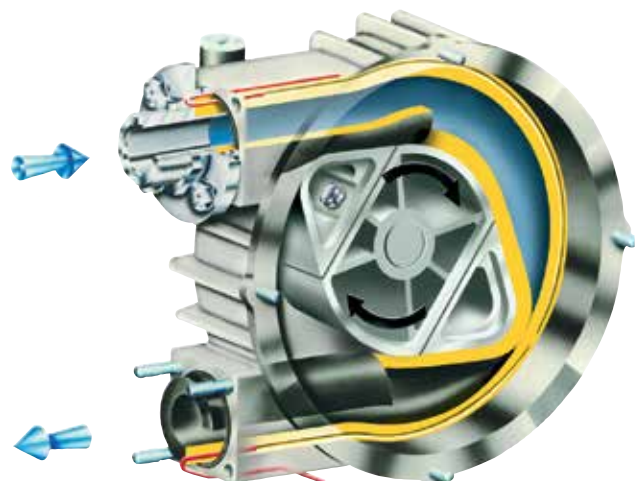
Chemische Industrie



Early Warning System (Suction Side)



Frühwarnsystem Druckseite



ELRO®-Peristaltic Pump Series XP



ELRO® peristaltic pumps of the XP series are characterised by a high flow rate at low speed. The large-dimensioned hose cross-section enables the pumping of media with a very high solids content.

The XP series is equipped as standard with the vacuum system integrated directly in the pump housing. In combination with the specially manufactured thin-walled delivery hoses, this results in excellent suction properties and very long hose service lives.

ELRO® pumps in the XP series offer numerous economic and technical

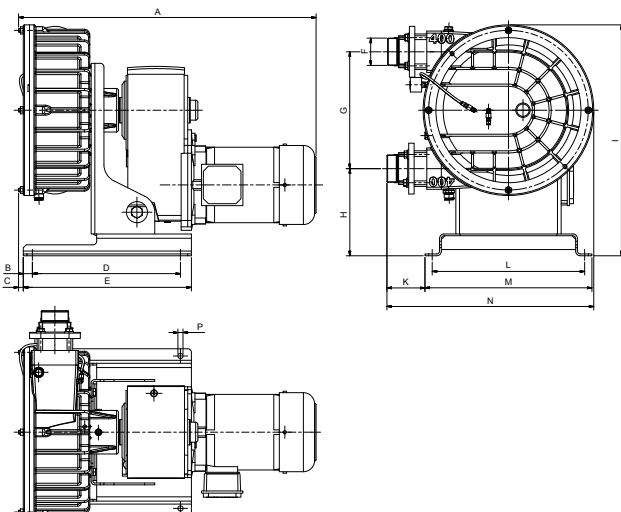
Advantages, such as

- High flow rate at low speed
- Proven compact design
- Dry-running safe
- Integrated vacuum system
- Dry-self-priming max. 9.5 m
- Conveying of highly viscous products due to vacuum support
- Max. delivery pressure 13 bar
- Ideal for long fibres and solids up to 40 mm due to large hose diameter
- Forward and return flow possible as standard
- Constant delivery rate over the entire service life due to vacuum support
- Various hose and connection materials available

Typ	Förderleistung max.	Verdrängung pro Umdrehung	Förderdruck max.	Schlauch-Innendurchmesser	Drehzahl max.	Antriebsleistung min-max	Gewicht
	m ³ /h	l/U	bar	mm	U/min	kW	kg
XP 200	2,7	0,32	13	35	140	0,55 - 2,2	60
XP 400	9,6	2,67	13	63	60	1,5 - 5,5	176
XP 800	46,0	12,8	10	91	60	5,5 - 18,5	693

Abmessungen (mm)

Series IP/XP



Typ	Abmessungen mm			
	F	A	N	I
XP 200	G 1 1/2"	665	316	364
XP 400	G 2 1/2"	820	570	636
XP 800	G 4"	1366	1020	1059

Main Industries :

- Chemical industry
- Ceramics and porcelain industry
- Construction industry
- Power stations
- Paint and varnish industry
- Waste and disposal industry
- Electroplating
- Waste incineration
- Slaughterhouses

The integrated vacuum system, see figures **2**, right, works as follows: The rotor rotates inside the pump housing filled with lubricant and compresses the delivery hose with the sliding shoes. At the same time, the diaphragm integrated in the pump cover is compressed by the sliding shoes **3** attached to the rotor. This pumping process forces the air in the housing outwards via the suction device fitted to the pump cover. The air is then drawn off by the suction device.

ELRO® peristaltic pumps of the XP series can be equipped with numerous accessories.

Applications



Chemische Industrie



Kraftwerke



Chemische Industrie



Rotor / combined vacuum system



Construction industry



Vacuum System



Vacuum system, interior view

ELRO® Peristaltic Pump Series M (Mobile Peristaltic Pump)



ELRO® Typ M300, GUP 3-1,5 & GP 20/10 Ex Peristaltic pumps are characterised by high mobility and excellent displacement. They have an integrated vacuum system for constant flow and various portable base frames. A wide range of accessories enables optimal and efficient use in almost any application.

The mobile unit is suitable for flow rates up to 20 m³/h for a wide range of applications, including contaminated and viscous media. The pump independently provides a suction lift of up to 9.5mWs without the use of additional accessories.

With only one wetted part, the hose, the M Series guarantees reliable operation at a low total cost of ownership.

Materials and performance characteristics

	M300							
	M20E	M20E Ex	M21E	M20B	M20 D	M20H	M20P	M20W
Antriebstyp	Elektrischer Motor (Standard)	Elektr. Motor (ATEX)	Elektr. Motor (polumschaltbar)	Benzinmotor	Dieselmotor	Hydraulischer Motor	Pneumatischer Motor	Wasserturbine
Antrieb	3,6 kW/ 2920 rpm	3,3 kW/ 2920 rpm	3,1 / 2.6 kW/ 2800 / 1400 rpm	3,4 kW/ 3600 rpm	3,5 kW/ 3600rpm	3 kW/ 3000rpm	3 kW/ 2000rpm	3,5 kW/ 3600rpm
Energieversorgung	Drehstrom 400V / 50Hz			Oktanzahl ≥86	Cetanzahl ≥45	13 MPa (130 bar)	0.6 MPa (6 bar)	0.85 MPa (8.5 bar)
Max. Durchfluss	18 m ³ /h (300 l/min)		9 / 18 m ³ /h (150 / 300 l/min)		20 m ³ /h (333 l/min)			
Pumpdruck max.	0.15 MPa (1,5 bar)			0,2 MPa (2 bar)				
Schlauchmaterial	CSM, NBR, NR							
Anschlussmaterial	Aluminium *), Edelstahl 1.4571, elektrisch leitendes Polypropylen, Messing							
An/Aus-Schalter mit Motorschutz	X			-				
Rahmen	Tragrahmen	Tragrahmen für Feuerwehr	Tragrahmen		Tragrahmen mit Griffen	Tragrahmen für Feuerwehr		
Schutzklasse	IP54			-				
Stromanschluss	5-poliger Stecker mit 1,3 m Anschlusskabel			-				
ATEX-Klassifizierung	-	II 2G Ex h IIB T3 Gb	-	-	-	II 2G Ex h IIB T3 Gb		

*) not for M20E Ex, M20H, M20P or M20W

Areas of application M300

Main areas of application :

- Chemical industry
- Fire brigades, rescue services
- Petroleum industry
- Paint and varnish industry
- Power stations
- Ports and ships
- Oil stations and tankers
- Airports

	GUP/GP	
	GUP 3-1,5	GP 20/10 Ex
Antriebstyp	Elektrischer Motor (polumschaltbar)	
Antrieb	2,1 / 2.75kW 1407 / 2857rpm	
Energieversorgung	Drehstrom 400V	
Max. Durchfluss	9 / 18m ³ /h (150 / 300 l/min)	
Pumpdruck max.	0,15 MPa (1.5 bar)	
Schlauchmaterial	CSM	CSM, NBR
Anschlussmaterial	Edelstahl 1.4571	
An/Aus-Schalter mit Motorschutz	x	
Rahmen	Tragrahmen für Feuerwehr	
Schutzklasse	IP55	
Stromanschluss	5-poliger männlicher Stecker mit 1,3 m Abschlusskabel	
Norm	Feuerwehrwesen DIN 14427	II 2G Ex h IIB T3 Gb

Applications



Freight Companies



Environmental applications



Waste disposal

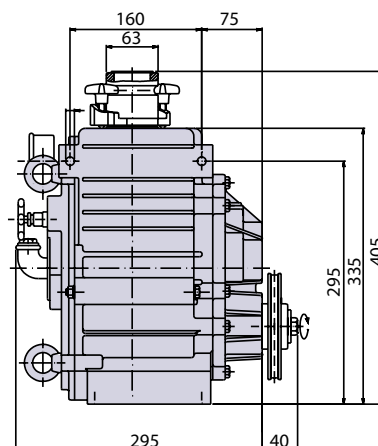


Galvanic k

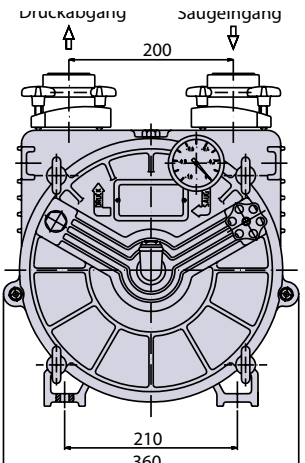


Railway Waste Disposal

Dimensions (mm)



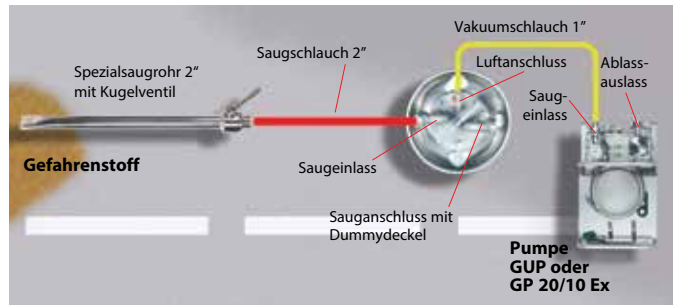
Pressure outlet Suction inlet



Accessories

ELRO® hazardous goods pumps are available with a variety of accessories, specially adapted for each application.

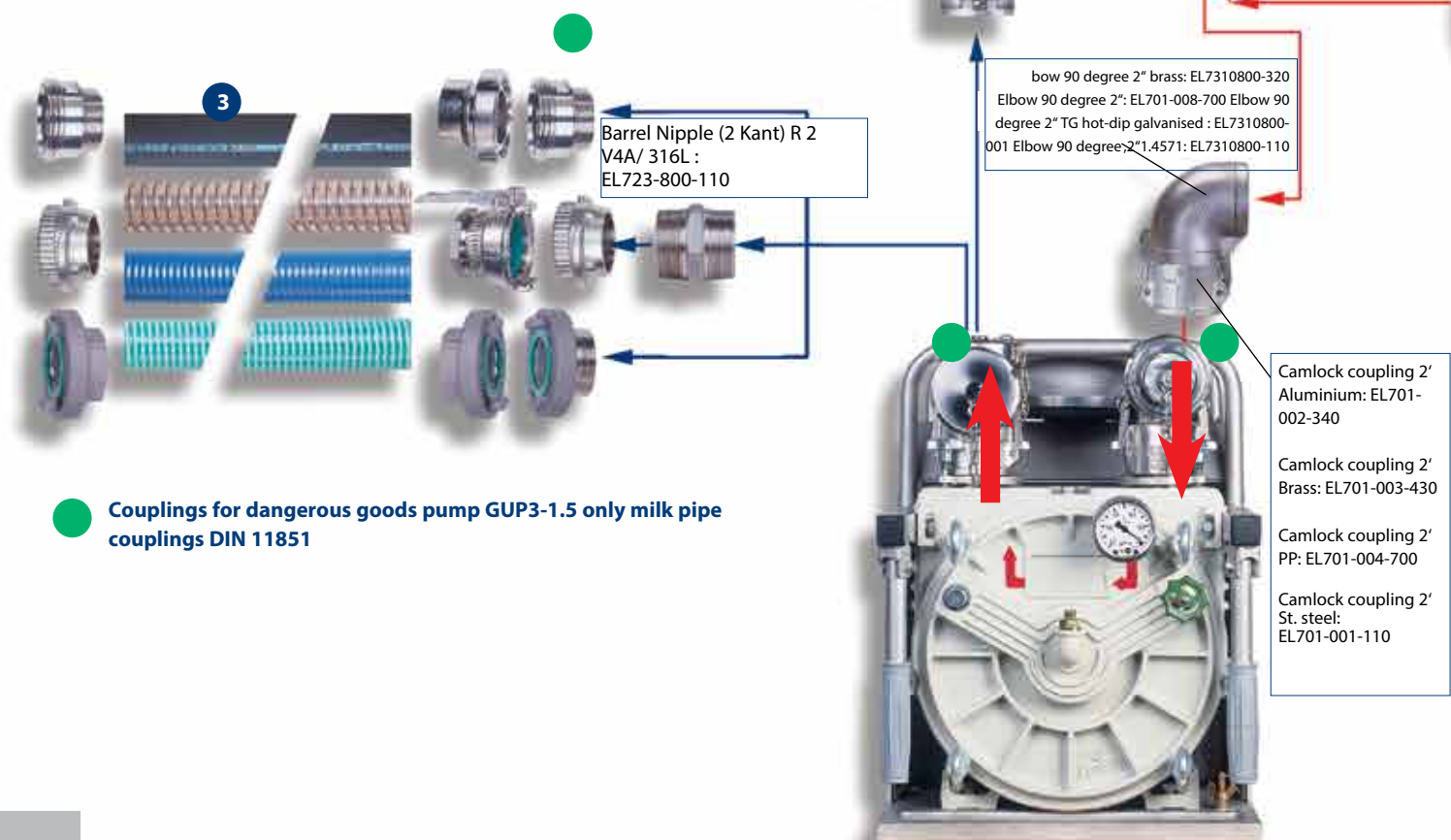
- 1 KL quick release couplings, pipe bends, Storz couplings and tank truck couplings in stainless steel (only for GP 20/10 Ex).
- 2 Pulsation damper in stainless steel with T-piece (only for GP 20/10 Ex).
- 3 Suction/pressure hoses are available in nominal widths of 1" to 4" and are fully pressure-tested with the matching coupling systems. Standard spiral hoses with plastic and steel reinforcement, chemical hoses or food-approved suction/pressure hoses.
- 4 180 litre transport drum in stainless steel with filling device tainless.
- 5 Hose cleaning balls in various designs. Can be drawn through suction hose, pump and discharge hose to clean out after use.
- 6 Suction strainers in various designs, special suction pipes and residual suction accessories in various materials.
- 7 Vacuum hose for the ELRO® disposal system.



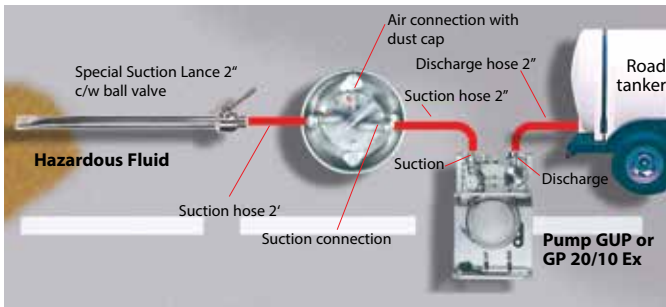
Filling the transport drum

When picking up small quantities of liquid contaminated by solids, the ELRO® pump is used with the transport drum. The contaminated liquid is drawn directly into the drum and the pump does not come into contact with the liquid.

Discharge side Accessories

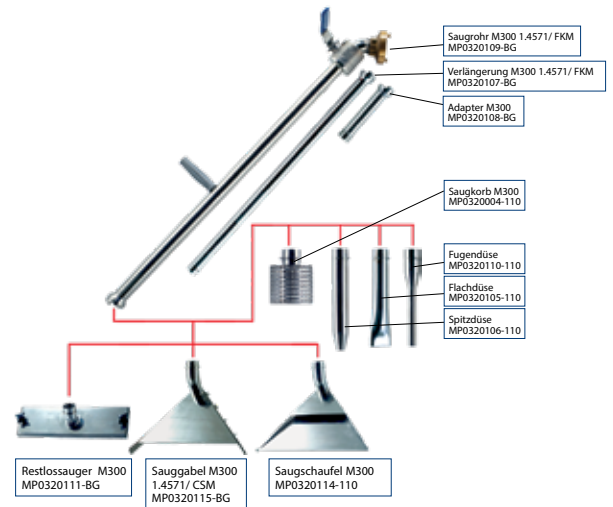


Couplings for dangerous goods pump GUP3-1.5 only milk pipe couplings DIN 11851



Transport drum as dirt separator
If a tanker is available to transport the hazardous material, the transport drum is used as a dirt separator.
 In this way, the last residue of the hazardous fluid can be removed.

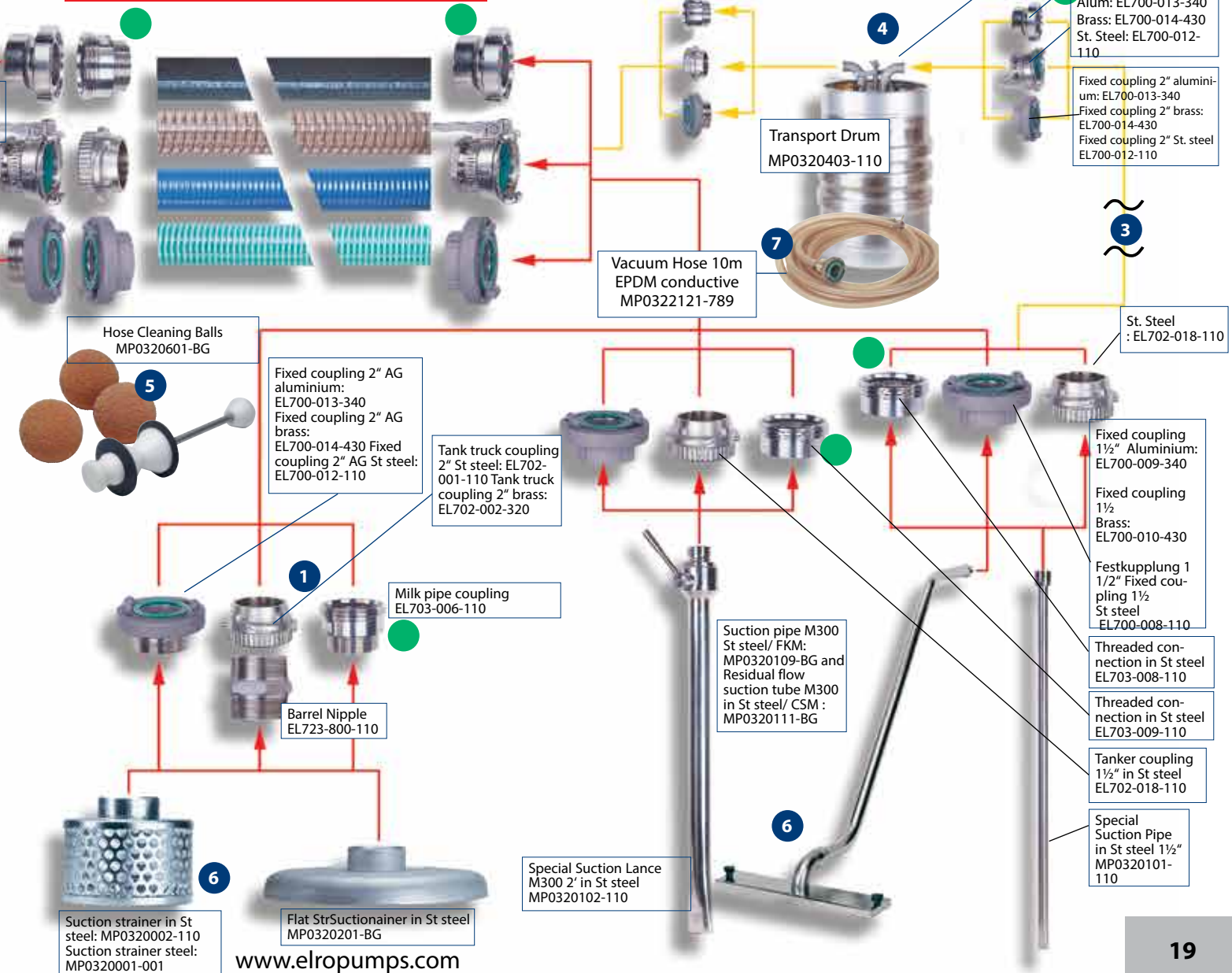
Foreign matter is separated in the drum and thus kept away from the pump and road tanker.



Suction Accessories

*)

Option



ELRO®

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