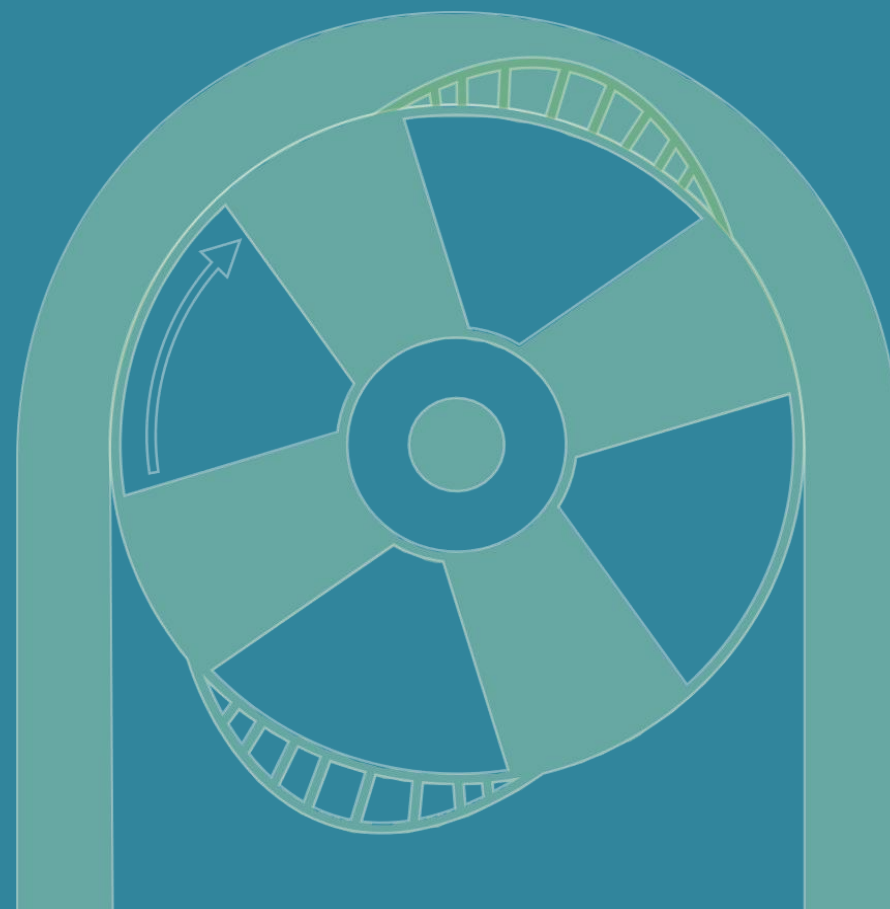


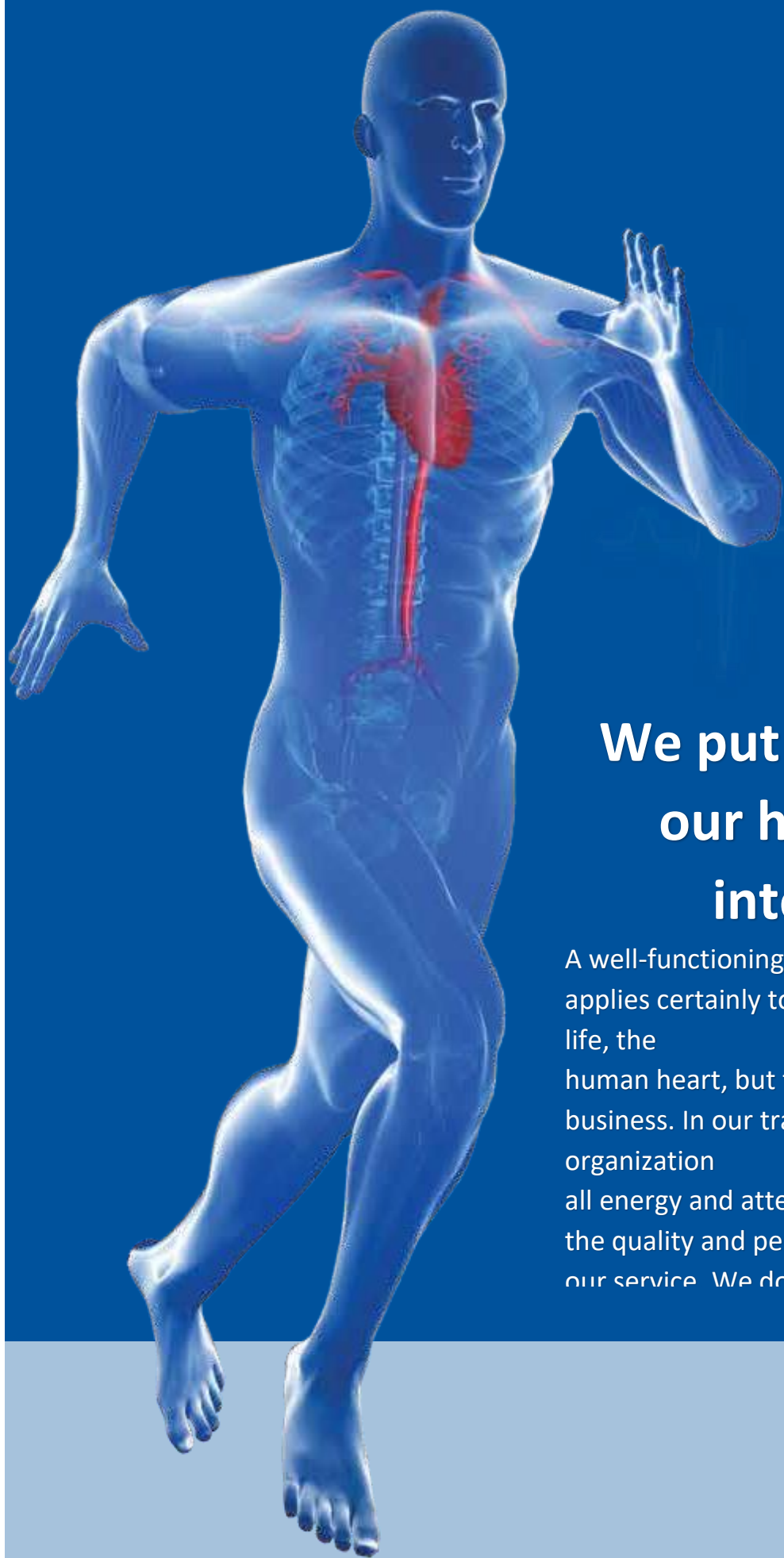


Parsa Group company was established with the goal of design and manufacturing of medical and laboratory equipment and Industrial peristaltic hose pump. This company contains a researcher and industrial team and with the help of this team has taken action to production of knowledge base production.

All of the design and manufacturing process done in this company. Parsa company slogan is "research and development use of experience and knowledge" and the help of this slogan is trying to design and production of high quality products.

Industrial and laboratory Pump





We put our heart into pumps

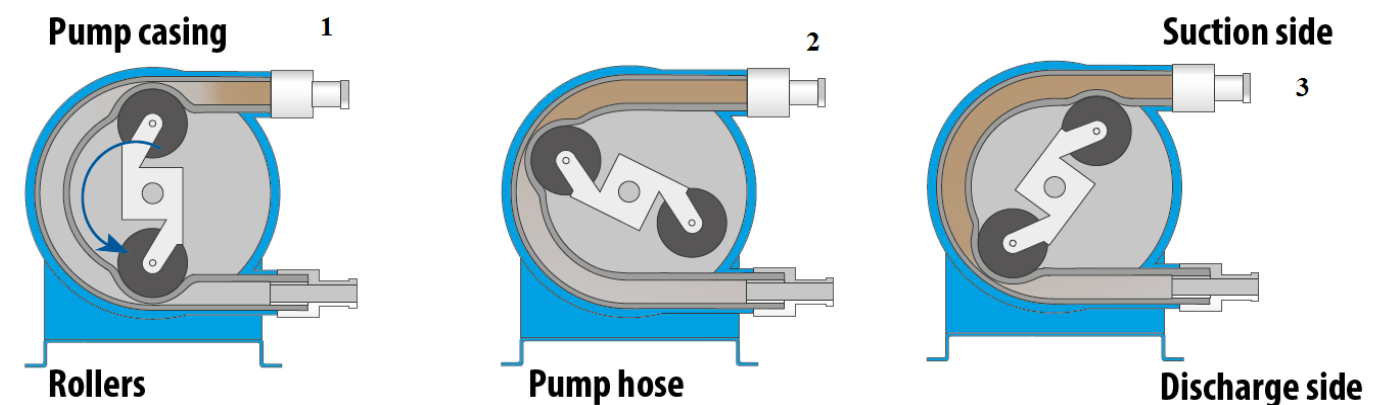
A well-functioning pump helps you succeed. That applies certainly to the most important pump in life, the human heart, but the same goes for pumps in business. In our transparent parsa group organization all energy and attention is focused on improving the quality and performance of our pumps and our service. We do so with energy, dedication

Industrial Peristaltic pumps

Why use the peristaltic pump?

For solving the pumping problems in industry the peristaltic pumps are very useful and their benefits are as follow.

- Resistant in Erosion and abrasion.
- Noncontact advantage between fluid and internal casing and rotor.
- Suitable for corrosive and acidic fluid.
- Low consumption of Electrical Energy.
- Positive displacement and constant pressure.
- Discharge pressure up to 18 bar.
- can pump liquids contain up to %80 inorganic solids (fines)
- can run dry.
- No seals
- High suction capability of up to %95 vacuum or 9-5 MWC and Can pump abrasive very viscous or high density fluids



Application areas

The unique design of parsa group pumps make them ideally suited to a wide range of application areas including:

- Abrasive fluids lime mixing.
- Corrosive fluids ferric chloride acids and Alkalies
- Shear sensitive fluid.
- Mining industry
- paper and pulp
- Chemical industry
- Tile and ceramic Industry
- Food industry

And all of the industry that pump viscous corrosive and abrasive fluid.

What is the peristaltic pump?

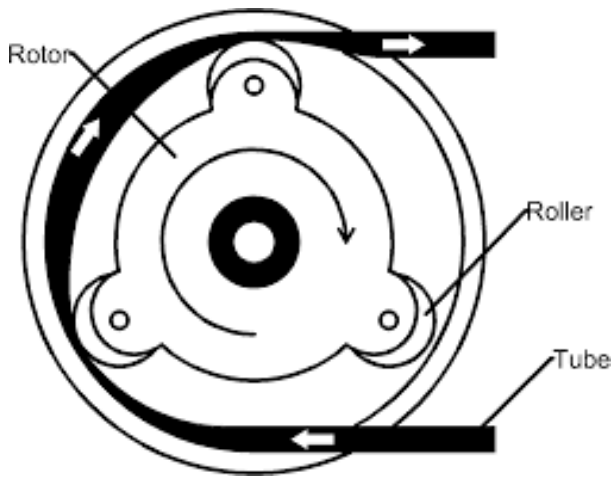
The peristaltic pump one of positive displacement pump.

This pump work is based on compression and tension of a Rubber Hose.

-The peristaltic pump is contain a flexible hose that pumping act will be done by two or three roller or cam. This circular move lead to suction and discharge of fluids. This pump very applicable for abrasive corrosive and sterile fluids and this characteristics is due to Non-contact system between fluids and internal space of casing and rotor system. Therefore, these pumps very useful for chemical, food, medical, paint, water and military industries. In selection of suitable pump, Rotation of rotor, channel, head, hose material and driver are very important.

Flow rate and pressure:

The industrial peristaltic pump have flow rate between 1 to 250 m³/h and pressure up to 16 bar. The laboratory peristaltic pump have a few flow rate and pressure. These pumps flow rate is between 0.01 ml/min to 10 l/min. used flexible part in the industrial pump is called house and in the laboratory pump is tube.



According to above figure, roller systems and direction and also tube (or hose) are determine the flow rate and pressure. This parameter are shown the with increase of rotation speed by rotor and large internal diameter of hose, increase the flow rate and discharge pressure.

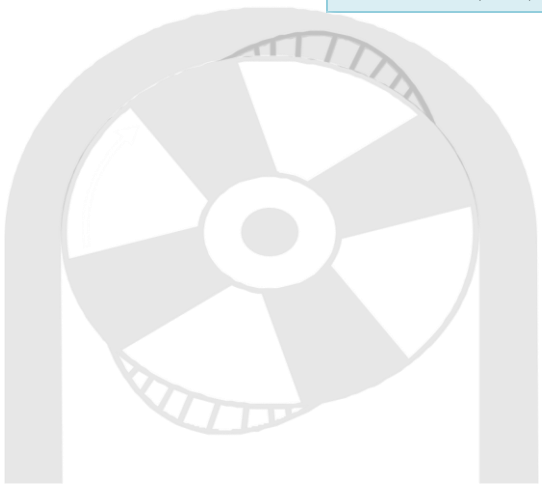


Selection pump with pressure 1 to 16 bar

Description	PA3010.MH	PA5010.MH	PA10010.MH	PA15010.MH	PA20010.MH	PA25010.MH
Flowrate(m ³ /h)	3	5	10	15	20	25
Pressure (Bar)	3	4	4	5	5	5
Power (KW)	3	4	4	4	5.5	5.5
Hose ID (mm)	32	32	40	50	50	65
Connection (Inch)	1 1/4	1 1/2	1 1/2	2	2	2 1/2

Description	PA30010.MH	PA40010.MH	PA45010.MH	PA55010.MH	PA70010.MH	PA90010.MH
Flowrate(m ³ /h)	30	40	45	55	70	90
Pressure (Bar)	6	8	8	10	12	12
Power (KW)	5.5	7.5	7.5	11	11	15
Hose ID (mm)	65	80	80	100	100	125
Connection (Inch)	2 1/2	3	3	4	4	5

Description	PA120010.MH	PA150010.MH	PA200010.MH	PA250010.MH
Flowrate(m ³ /h)	120	150	200	250
Pressure (Bar)	12	15	18	18
Power (KW)	22	30	37	45
Hose ID (mm)	100	100	125	145
Connection (Inch)	4	4	5	6





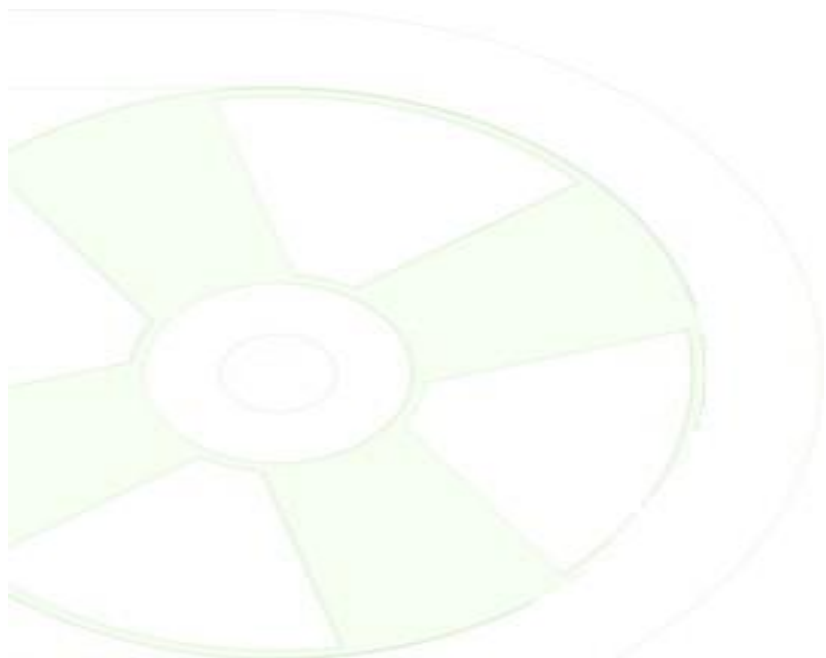
Example for industrial 90 m³/h pump

One of the heavy duty industrial pump is shown as follow. In this pump flow rate is 90 m³/h and discharge pressure is 16 bar. Very suitable for pumping slurry and viscose liquids.



Advantages:

- Transfer optimum flow rate with respect to other pump as centrifugal.
- Easy hose connection.
- Inverter for Rotation control and
- Adaptive hose material according to liquid type.
- Robust structure and without vibration.



The hoses

Characteristics of used hoses in the peristaltic pump is as follow:

- the diameter of hose must be very exact, Constant the hose length.
- The uniform hardness according to shore standard must be optimum
- Internal layer material must be according to the fluids

NR



White

General type for highly abrasive liquid

NBR



Yellow

Suitable for oil petrochemical

NBRF



White
Yellow

FDA CFR21 & EC
No. 1935/2004 approved
For food industry

EPDM



Red

For acid and corrosive liquids

CSM



Green

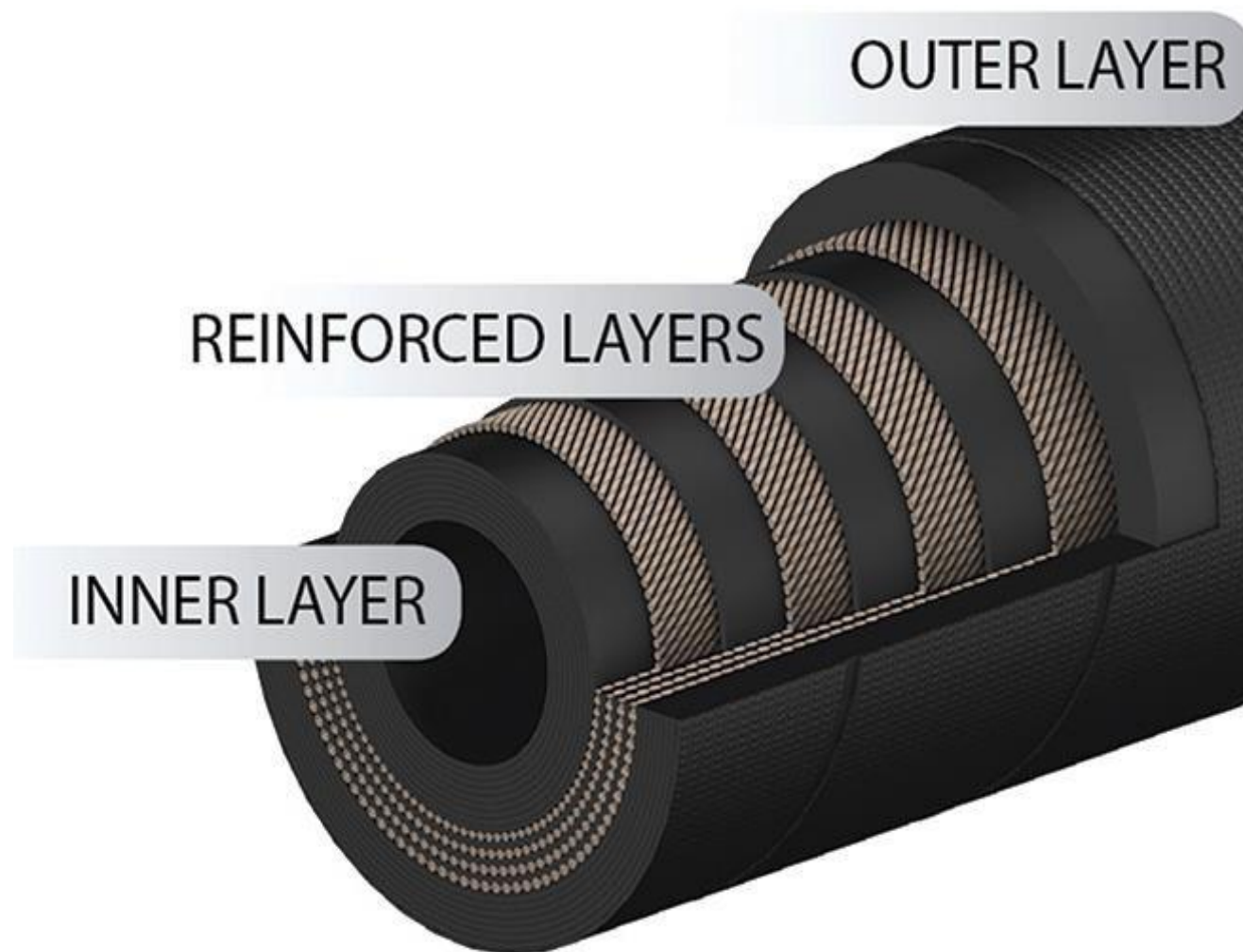
Suitable for highly corrosive fluids



Peristaltic pumps hoses

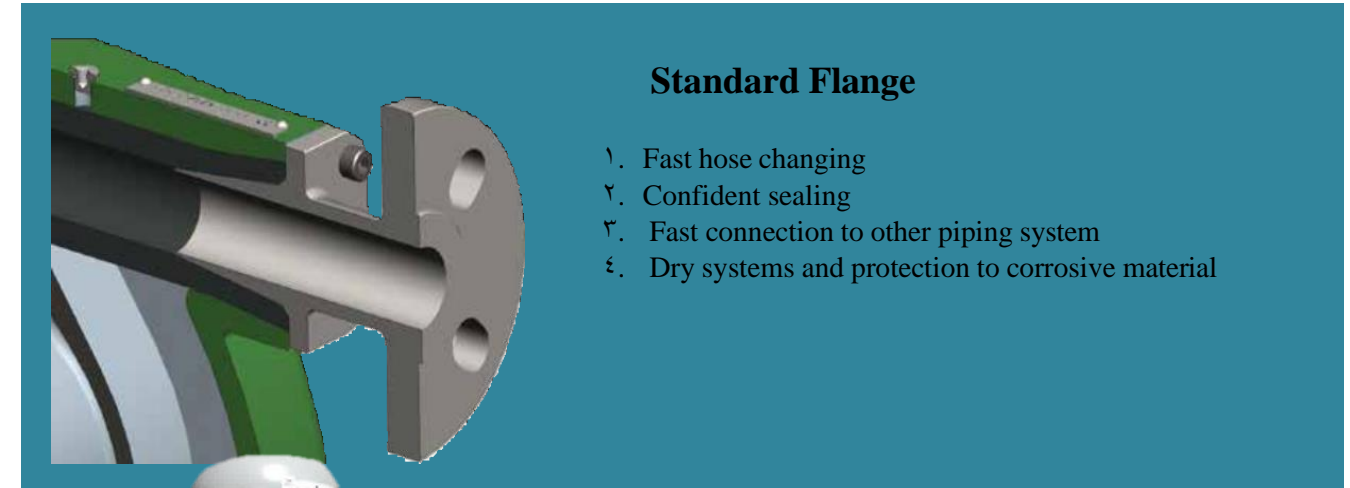
١. The Tubes for laboratory peristaltic pump that they material is silicon, natural rubber. The material of this tube is uniform and fibreless that suitable for low flow rate and pressure.

٢. The hoses for industrial peristaltic pump that with respect two or four mechanical fiber. According to fluid type, inner layer (below figure) can be variable but outer layer due to contact with roller or can must be straight to friction.



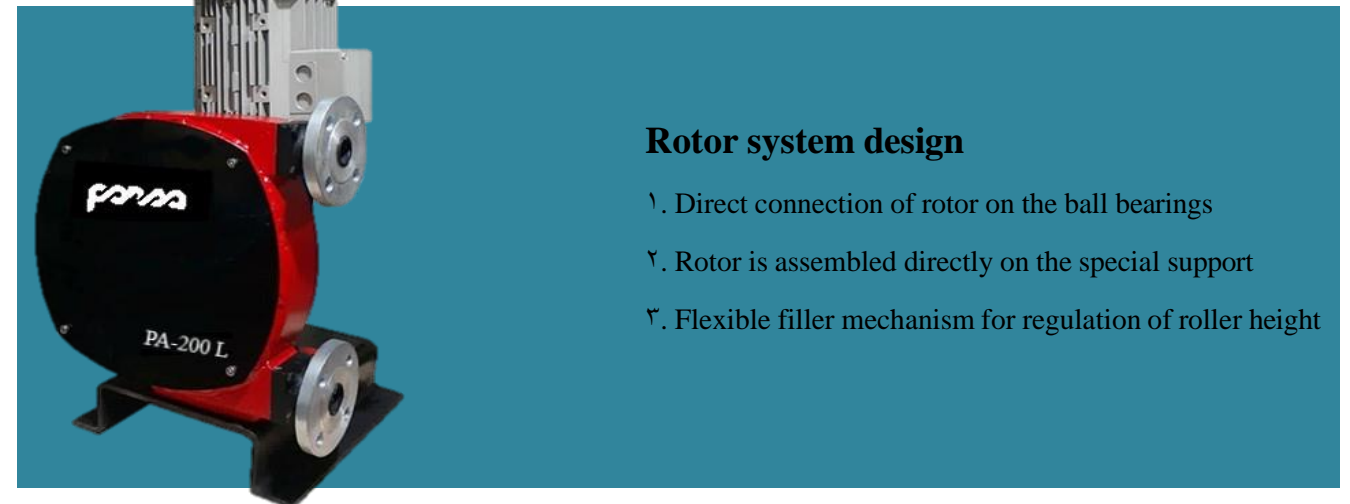
Advantages of parsa group pumps:

- ١. Onon-contactivity whit respect to internal systems.
- ٢. Constant pressure.
- ٣. Seal less and run dry
- ٤. Low destruction due to slow shaft rotation
- ٥. New and optimum design
- ٦. Very flexible design with respect to customer request.



Standard Flange

- ١. Fast hose changing
- ٢. Confident sealing
- ٣. Fast connection to other piping system
- ٤. Dry systems and protection to corrosive material



Rotor system design

- ١. Direct connection of rotor on the ball bearings
- ٢. Rotor is assembled directly on the special support
- ٣. Flexible filler mechanism for regulation of roller height



Gearbox system

The parsa company pumps is equipped to planetary gearbox. The advantages of planetary gearbox are as follow:

- ١. Low and simple maintenance
- ٢. Low clearance
- ٣. High torque performance
- ٤. Easy and confidante coupling
- ٥. Professional and industrial geometry.

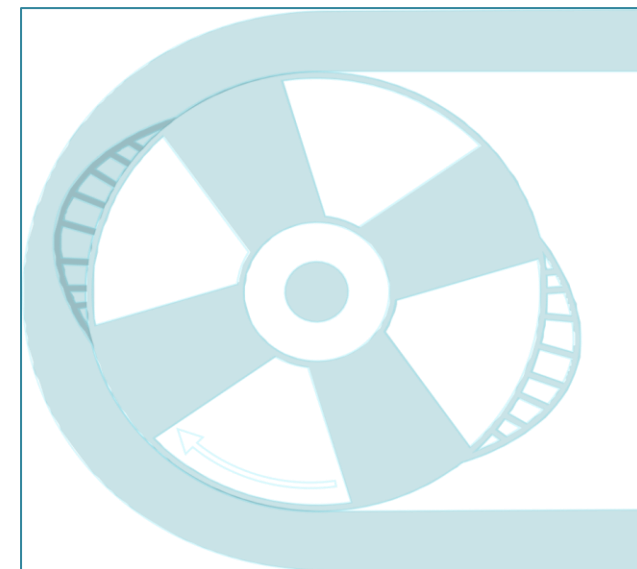




Fig.(2). Chemical fluid pumping in paper industry



Fig.(3). Pumping of primitive material for paint



Fig.(4). Alkalis fluid pumping



Fig.(5). Sludge pumping

Peristaltic pump applications:

- Metal refinery (lead, Zink, gold and silver)
- Tile and ceramic industry
- Paper industry
- Paint industry
- Oil and petrochemical
- Medical and pharmacy
- Ocean industry
- Food industry
- Sugar industry

Some of these industry are shown in fig (2) to (5).

The installed pump for silt in filtration part is shown in fig (2). Pumping these liquid because of pastiness and viscosity form, is difficult for other pumps .In fig (3), Installed pump for acidic fluid is shown. Highly corrosive fluid is very dangerous for internal parts of other pump and in time lapse lead to corrosion and failure. In fig (4), the installed pump for primary material of paint is shown. In fig (5), the installed pump for alkalis liquid (Na OH) is shown. Because of corrosive characteristics of NaOH, the peristaltic pump is very suitable.

Generally; all of the corrosive liquid, viscose and slurry fluids are pumped with peristaltic hose pump.



Contact us:

phone: +982122921322

Fax: +982179491756

Mobile: +989354609363

Email : parsagroup.pump@gmail.com

Web: parsagroupco.com

Address: Mirdamad, Mader Square, Bijan Tower, 11th floor, Unit 6, Tehran, Iran

