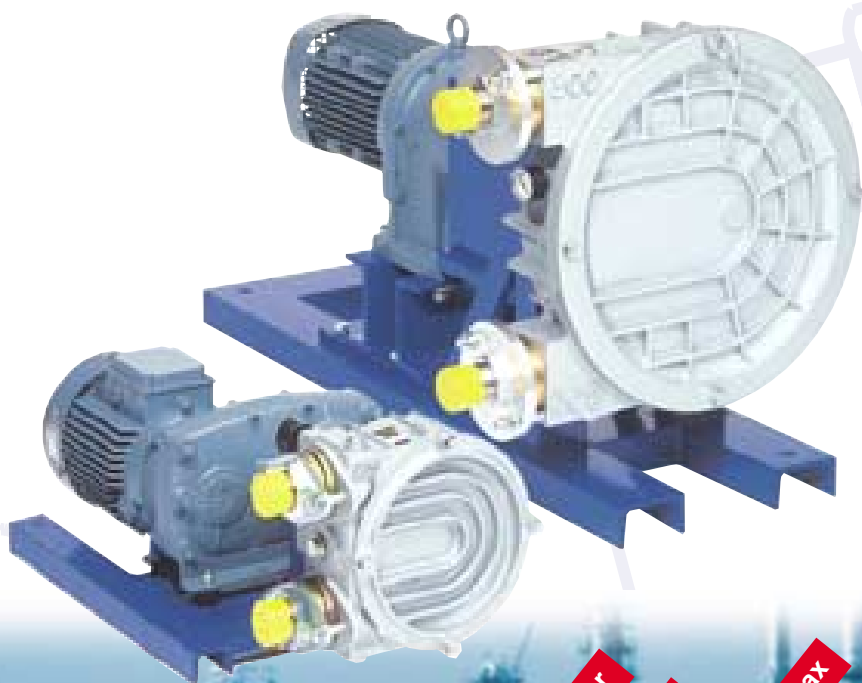


ELRO Peristaltic Pumps

Series IP

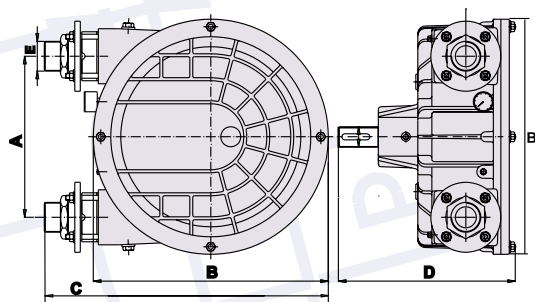


The IP series of ELRO peristaltic pumps distinguish themselves through a gentle transport of liquid or viscous media. Also capable of handling abrasive, shear-sensitive products with long fibres and solids. Over the years they have become an integral part in the pump pool of many operators.

The 13 bar / 188 psi pump pressures of the standard versions make ELRO peristaltic pumps suitable for replacing other pump technologies. The seven pump sizes, various hose materials including food approved versions and the different port options allow individual adaptation to each application. This variety is further expanded by the frame and motor variants.

Type	Pump capacity	Inner hose diameter	Max. speed [rpm]	Drive output min/max	Weight without drive
	l/rev USGallon/rev	mm / inch	rpm	kW / HP	kg / lb
IP 100 (1")	0,07 0.018	15 0.59	142	0,37 – 1,1 0.50 – 1.5	12 26
IP 200 (1 1/4")	0,22 0.058	30 1.18	142	0,55 – 1,5 0.75 – 2.0	16 35
IP 300 (1 1/2")	0,85 0.224	35 1.38	70	1,10 – 4,0 1.50 – 7.5	48 106
IP 400 (2")	1,65 0.436	50 1.96	60	1,50 – 5,5 2.0 – 7.5	51 112
IP 500 (2")	2,9 0.766	52 2.0	60	2,2 – 7,5 3.0 – 10	110 242
IP 600 (2 1/2")	4,45 1.175	60 2.4	60	3,0 – 11 5.0 – 15	123 271
IP 800 (3")	7,8 2.06	70 2.76	60	5,5 – 18,5 7.5 – 25	248 546

Dimensions
mm / inches



Type	IP 100	IP 200	IP 300	IP 400	IP 500	IP 600	IP 800
	(1")	(1 1/4")	(1 1/2")	(2")	(2")	(2 1/2")	(3")
A	152/5.98	140/5.51	336/13.23	320/12.60	516/20.31	510/20.08	692/27.24
B	242/9.53	242/9.53	470/18.50	470/18.50	680/26.77	680/26.77	890/35.04
C	316/12.44	316/12.44	585/23.03	570/22.40	840/33.07	800/31.50	1020/40.16
D	290/11.42	290/11.42	380/14.96	355/13.98	480/18.90	500/19.68	680/26.77

ELRO peristaltic pumps are equipped as a standard with a patented vacuum system. It leads to many economic and technical advantages such as:

- very good suction properties up to 9.5 m / 31 feet lift (no additional suction equipment required)
- constant pump capacity during the entire hose life
- enables the hose to reform to its full cross section
- low reduction in capacity when handling very viscous media
- use as early warning system for a just in time hose exchange

Main application:

- Chemical industry
- Ceramic and porcelain industry
- Building industry
- Food and beverage industry
- Breweries
- Cosmetic and pharmaceutical industry
- Power stations
- Colour and painting industry
- Waste and disposal industry

Applications



Waste disposal industry



Breweries



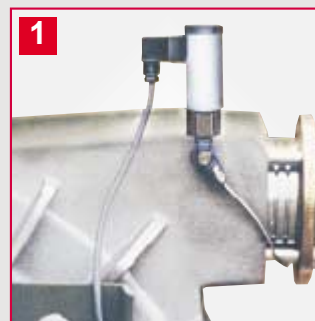
Chemical industry

The patented early warning system (see illustration right **2**, **3**) works as follows: Each hose is provided with a small additional channel through which the air in the upper section of the pumping chamber is evacuated from the pump housing. Therefore, a vacuum is formed in the sealed aluminium housing. In the case of damage or normal wear of the hose, the vacuum will drop.

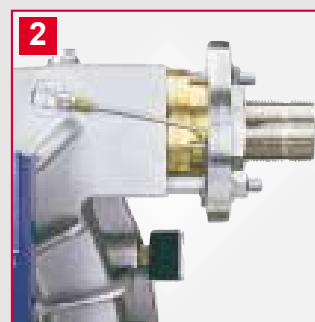
The early warning can be seen through the installed vacuum gauge. An acoustic or optical signal can be activated by using the vacuum switch **1**.

By this, the hose condition is monitored for optimum service planning.

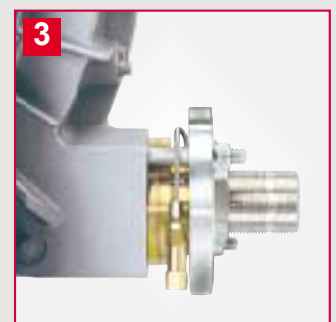
Downtimes through normal wear can be predicted.



Early warning system switch



Early warning system suction side



Early warning system discharge side

ELRO Peristaltic Pumps

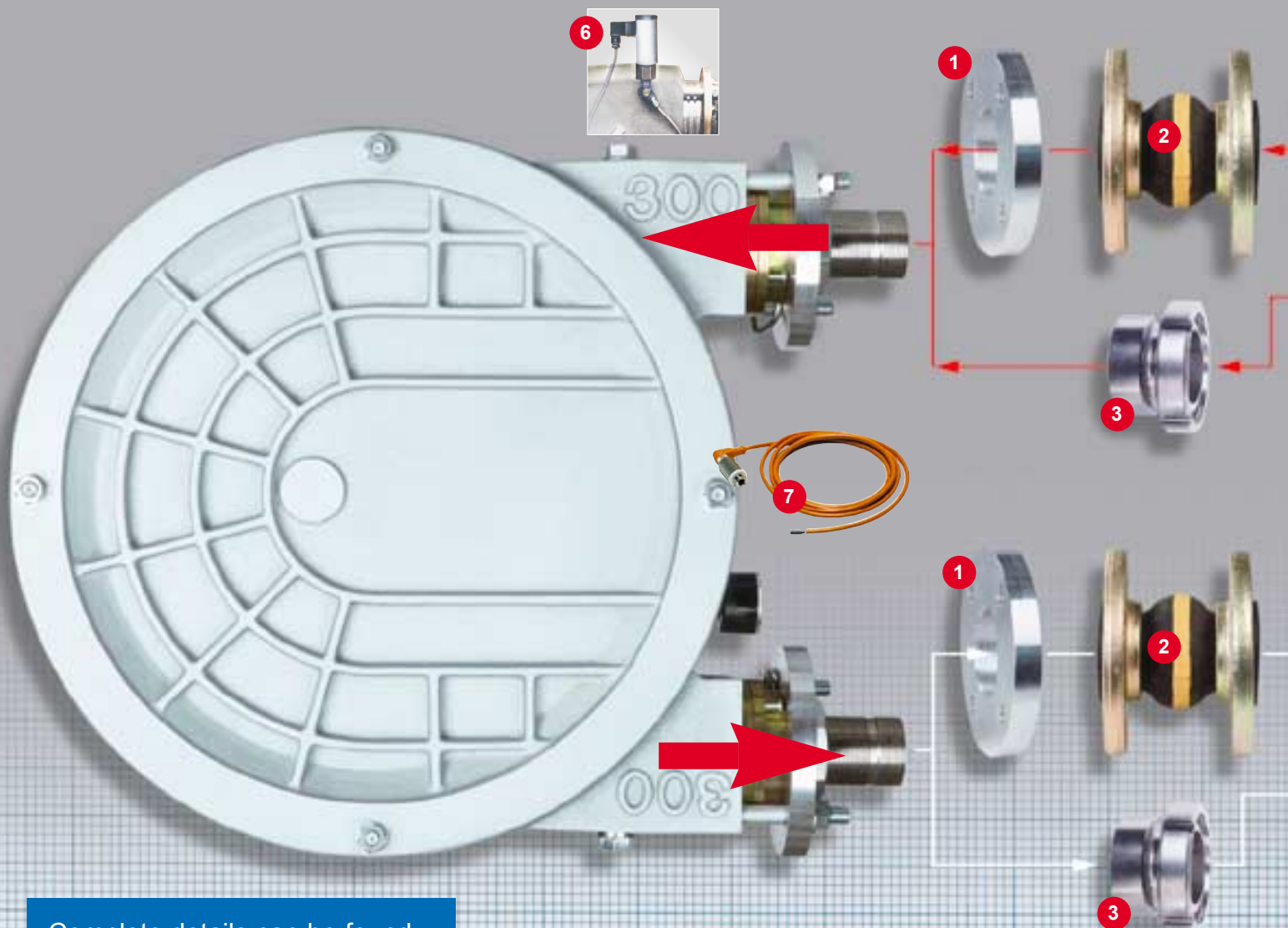
Series IP

The IP series of ELRO peristaltic pumps are available with a variety of accessories for each application.

- 1 Flanges in steel, stainless steel and plastic according to different standards
- 2 Compensators in steel, stainless steel with matched elastomer materials
- 3 Quick action couplings and fittings, e.g. coupling in stainless steel, brass and aluminium, DIN and triclamps
- 4 Suction/discharge hoses are available with nominal sizes between 1" and 4" and equipped with suitable coupling systems, completely pressure-tested. Standard

spiral hoses with plastic and steel reinforcement, chemical hoses or suction/discharge hoses approved for food applications.

- 5 Pulsation dampers made of different housing materials: lacquered steel, polypropylene or stainless steel. Depending on the type of design and size with an inner membrane complete with fittings and pressure gauge.
- 6 Vacuum switch for checking the vacuum in the pump housing. Pressure drop = Alarm.
- 7 Conductivity sensors for the conductivity measurement. If conductivity fluid is mixed with the medium = Alarm.



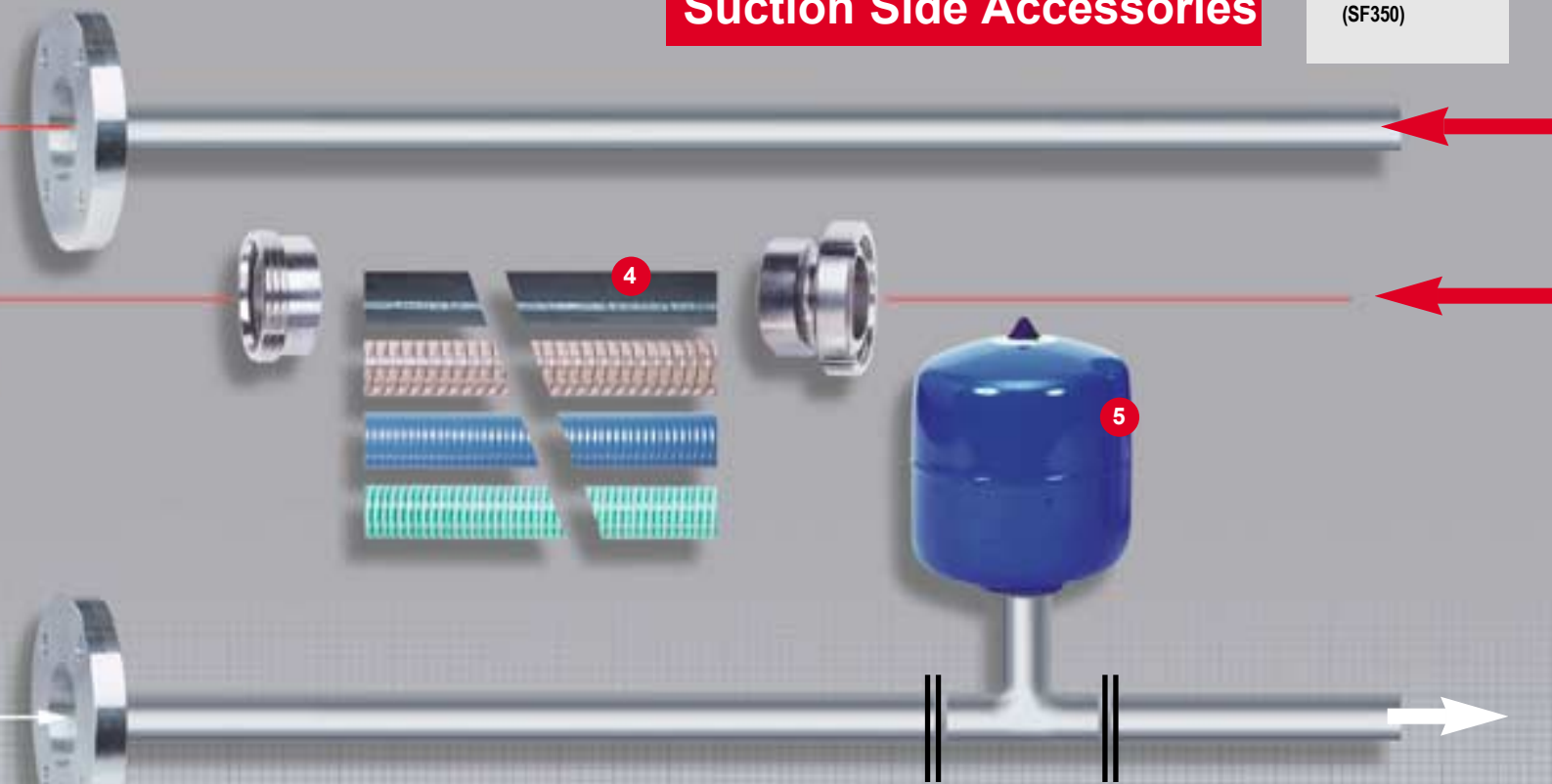
Complete details can be found in the accessories catalogue.

Pump coding

I 10 E A A - - B A Motor and gear-box choice

Type	Size	Connections	Hose / lubricant	Pump pressure	Paint finish	Connecting position with regard to suction side viewed from front	Base frame
I	10 IP100 20 IP200 30 IP300 40 IP400 50 IP500 60 IP600 80 IP800	E Stainless steel NPT R Stainless steel RJT S Stainless steel BSP K Polypropylene BSP T Polypropylene NPT	A NBR electric conductive + silicon B NBR + silicon C CSM + silicon D NBR + glycerine E EPDM + silicon F EPDM + glycerine G NR + glycerine H CSM + silicon J IIR + silicon K IIR + silicon N NR + silicon W NR full fabric + silicon Y NR full fabric + glycerine	A 0- 2 bar 0- 29 psi B 2- 4 bar 29- 58 psi C 4- 6 bar 58- 87 psi D 6- 8 bar 87-116 psi E 8- 10 bar 116-145 psi F 10- 13 bar 145-188 psi	A Silver B Acid-proof paint C Customer-specific	- left/top (standard) A left/bottom B right/top C right/bottom D top/left E top/right X left/full fabric coating Y right/full fabric coating Z top/full fabric coating	A steel painted (150-180) B steel painted (110-140) C Stainless steel D Steel painted movable E Stainless steel movable F Stainless steel specified G Stainless steel painted H steel painted (150-180) J steel painted (SF350)

Suction Side Accessories



Discharge Side Accessories

