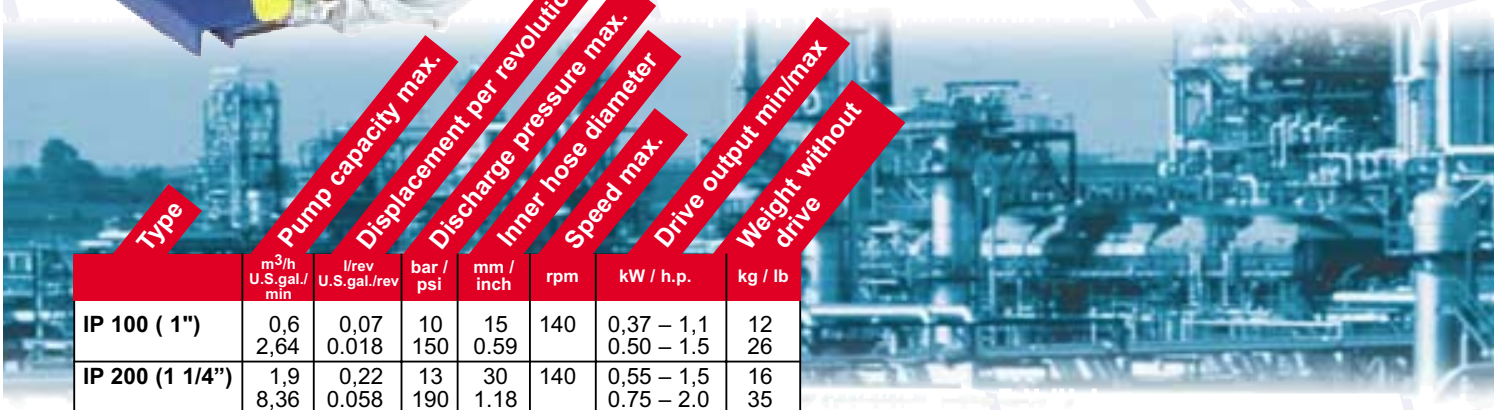
ELRO Peristaltic Pumps

Series IP

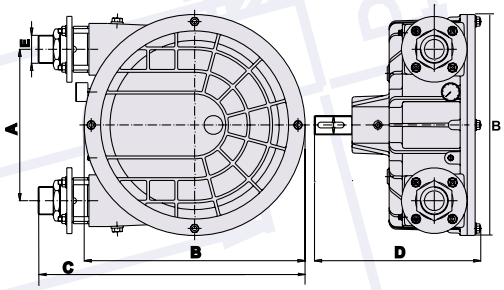
The IP series of ELRO peristaltic pumps distinguish themselves through a gentle transport of liquid or viscous media. Also capable of handling abrasive, shear-sensitive products with long fibres and solids. Over the years they have become an integral part in the pump pool of many operators.

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 max. m^3/h U.S.gal./min	Displacement per revolution l/rev U.S.gal./rev	Discharge pressure max. bar / psi	Inner hose diameter mm / inch	Speed max. rpm	Drive output min/max kW / h.p.	Weight without drive kg / lb
IP 100 (1")	0,6 2,64	0,07 0.018	10 150	15 0.59	140	0,37 – 1,1 0.50 – 1.5	12 26
IP 200 (1 1/4")	1,9 8,36	0,22 0.058	13 190	30 1.18	140	0,55 – 1,5 0.75 – 2.0	16 35
IP 300 (1 1/2")	3,1 13,6	0,85 0.224	13 190	35 1.38	70	1,10 – 4,0 1.50 – 5.5	48 106
IP 400 (2")	6,0 26,4	1,65 0.436	13 190	50 1.96	60	1,50 – 5,5 2.0 – 7.5	51 112
IP 500 (2")	10,5 46,2	2,9 0.766	13 190	52 2.0	60	2,2 – 7,5 3.0 – 10	110 242
IP 600 (2 1/2")	16,0 70,4	4,45 1.175	13 190	60 2.4	60	3,0 – 11 4.0 – 15	123 271
IP 800 (3")	28,0 123,2	7,8 2.06	13 190	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	IP600	IP 800
E	(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

Applications

Main application:

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

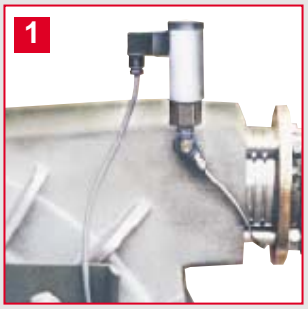
Waste disposal industry

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 evaquated 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.

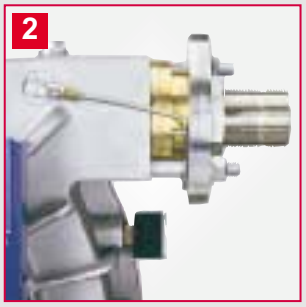
By this, the hose condition is monitored for optimum service planning.

Downtimes through normal wear can be predicted.



Early warning system switch

Chemical industry



Early warning system suction side

Early warning system discharge side