Alfa Laval Peristaltic Pumps, IP Range

Application

The IP Range of peristaltic pumps is the solution to many fluid transfer problems. These pumps have no valves or glands that may leak, clog or stick, and the pumped medium contacts only the inside of the hose. Particular advantages apply to the pumping of abrasive mixtures and media containing long fibrous, stringy solids. Very high viscosity media and delicate suspended solids can also be handled.

The patented 'Hose-in-Hose' vacuum system incorporated in the IP Range design, enhances the inherent peristaltic pumping benefits offered by conventional peristaltic pump design. Suction lift and overall performance are improved and the 'Hose-in-Hose' system also offers early warning of an imminent hose failure as a result of normal hose wear.

The IP Range of pumps are capable of a dry suction lift of up to 9.5m, the excellent suction lift ability stemming from the near full vacuum achieved within the pump hose during operation. The sealed and lubricated pump housing ensures tolerance for dry running, critical in the transfer of liquid/gas mixtures. Flow rate is easily varied simply by regulating the speed of rotation.



Alfa Laval's peristaltic pumping experience covers a wide span of industries and applications. This, combined with state-of-the art engineering technique, forms the basis of the IP Range development. Advanced production methods and stringent quality control underpin Alfa Laval's leadership in the field of positive pumping.

Standard Design

Pump Housing

The pump housing material for all IP Range pumps is high quality cast aluminium. This offers several advantages, including a large reduction in weight when compared to pumps constructed from cast iron. Furthermore, the thermal conductivity of aluminium is superior to both cast iron and stainless steel, resulting in more efficient heat dissipation and extended hose life. The exterior of the pump housing is protected by a quality epoxy paint system to protect against natural and corrosive elements. Alternative surface coatings including acid resistant polyurethane are available on request. The heavy duty bearing arrangement incorporated in all pump models provides maximum support to the drive shaft.

Hoses

The wide range of hose materials available means that almost all fluid media can be handled, including acids and other corrosive products. Hoses are colour coded for easy identification:

Hose material	Colour code
Natural rubber	yellow
Nitrile	red
EPDM	white
Butyl	green
Hypalon	black

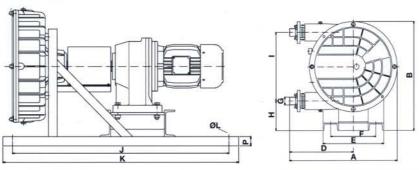
Pressure Rating

With the exception of the IP100 pump model, which has a maximum pressure rating of 9 bar, all IP Range pumps are rated to a maximum discharge pressure of 13 bar. For maximum efficiency, all pumps are constructed for specific pressure bands to suit application requirements.

Bareshaft Pump Dimensions

PUMP MODEL	A	В	С	L	н	1.	G	K	øD	т	U	øE	М
IP100	152	242	1"	290	318	60	160	60	30 k6	33-0.2	8 p9	192	M10
IP200	140	242	11/4"	310	318	60	160	70	30 k6	33-0.2	8 p9	192	M10
IP300	336	470	1½"	350	585	80	182	83	35 k6	38-0.2	10 p9	310	M12
IP400	322	470	2"	355	570	80	155	100	40 k6	43-0.2	12 p9	310	M12
IP500	516	680	2"	480	835	120	234	123	60 h6	64-0.2	18 p9	500	M20
IP600	510	680	21/2"	500	800	120	234	134	60 h6	64-0.2	18 p9	500	M20
IP800	692	890	3"	600	1023	150	297	155	60 h6	64-0.2	18 p9	630	M24

Mounted Pump Dimensions



PUMP MODEL	A	В	D	E	F	G	Н	1	J	K	L	P
IP100	318	273	197	380	330	1"	74	152	360	460	12	38
IP200	318	273	197	380	330	11/4"	80	140	360	460	12	38
IP300	585	530	350	400	360	1½"	118	336	270	350	14	8
IP400	570	595	335	340	240	2"	200	322	930	1010	18	50
IP500	835	820	458	470	350	2" -	222	516	1330	1450	18	50
IP600	800	820	458	470	350	21/2"	225	510	1330	1450	18	55
IP800	1023	1080	578	606	446	3"	289	692	1330	1490	18	65