GUIDE TO CHOOSING A PUMP

HOW TO CHOOSE A PUMP SUITABLE FOR ONE'S NEEDS

PUMP SIZE	DELIVERY (FLOW RATE)	MAX Ø SOLID PARTS	SERIES		
			POLYPROPYLENE	POLYPROPYLENE AND ALUMINUM	ALUMINUM
1/2"	60 l/min	1,5 mm	-	120-PPAB	-
	65 l/min	1,5 mm	120-PPB	-	-
	70 l/min	1,5 mm	-	-	120-AB
1"	170 l/min	3 mm	-	1000-PPAB	1000-AB
	145 l/min	3 mm	1000-PPB	-	-
1.1/4"	200 l/min	3 mm	-	-	1140-AB
1.1/2"	480 l/min	5,5 mm	-	-	1120-AB
2"	580 l/min	6,5 mm	-	-	2000-AB flanged
	610 l/min	6,5 mm	-	-	2000-AB

TECHNICAL ASPECTS TO BE CONSIDERED FOR A CORRECT CHOICE OF PUMP

PUMP SIZE
The size of a pump is closely linked to its maximum delivery: in fact, the larger the pump the greater the delivery.

CHEMICAL COMPATIBILITY
Some parts of the pump are always in contact with the liquid to be pumped. Therefore the materials these parts are made from must be chemically compatible with the liquid.

DIMENSIONS OF SUSPENDED SOLIDS
The maximum dimensions possible for suspended solids in the fluid to be pumped are specified in the technical tables of each diaphragm pump.

WORKING TEMPERATURE
The maximum and minimum working temperatures take into account the physical characteristics of the various parts making up the pump and their interaction with the pumped liquid.

ABRASION RESISTANCE
If the fluid to be pumped is very abrasive, the wear on parts that deteriorate quickly (e.g. diaphragms, balls, seats) can be reduced by choosing a pump larger than required. In this way the speed of the fluid inside the pump will be lower, thereby reducing the abrasion on the parts in contact with it.

SYSTEM SIZE
In order to optimise the performance of the pump it is advisable to consider the following dimensional parameters relevant to the system:

1) Suction pipe: position the pump as close as possible to the point of suction; if this is not possible, the maximum vertical distance must not exceed the limits reported in the technical table.

2) Delivery pipe: the pipe must be sized so as to avoid pressure losses; the internal diameter must be chosen according to the distance to be covered, the temperature and the viscosity of the fluid.

ATEX DIRECTIVE

PUMP FAMILY	DESCRIPTION	CERTIFICATION CLASS
ENTIRELY ALUMINUM SERIES	**Conductive material version** Built with central body and manifolds in conductive metallic material (aluminum)	II 2GD c IIB T4 X (zone 1)
ALUMINUM AND POLYPROPYLENE SERIES	**Partially conductive material version** Manifolds built with non-conductive plastic material (PP) and central body with conductive material (aluminum)	IIB 3GD c TX (zone 2)
ENTIRELY POLYPROPYLENE SERIES	Central body and manifolds in non-conductive plastic material (PP)	not certified