

POLYETHYLENE AND PTFE PUMPS



1. Designed to succeed

- temperatures up to 120 °C
- pressure up to 14 bar
- lubrication-free operation
- low air consumption

2. Flexible installations

- BSP as standard,
- PN10, PN16, AISI316, ANSI, NPT, split manifold configurations available
- connections may rotate 180 °

3. Solid and strong

- housing machined from a solid PE, PTFE (and conductive)
- stand against aggressive chemicals
- gentle pumping action
- viscous product transfer

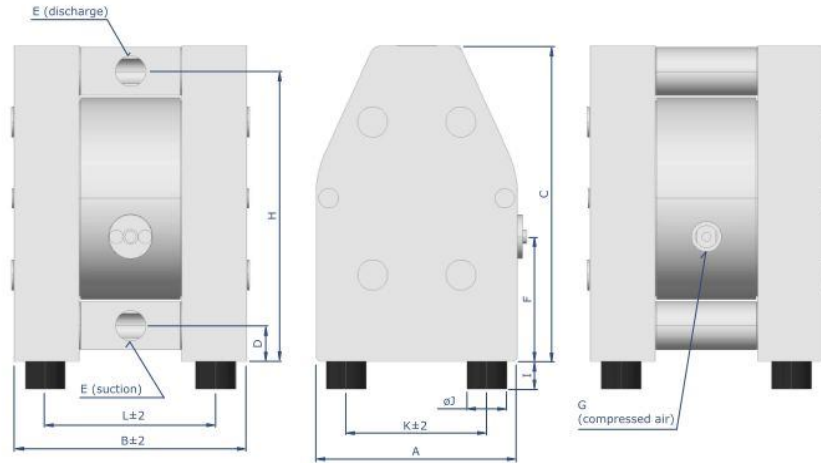
4. Perfect diaphragm

- completely smooth liquid side surface (no hole)
- no metal in contact with the liquid



POLYETHYLENE AND PTFE MATERIALS

DIMENSIONAL DRAWING



DIMENSIONS	A	B	C	D	E	F	G	H	I	ØJ	K	L
DM 08/10	70	113	120	15	G 1/4"	58	R 1/8"	107	10	15	50	86
DM 10/25	105	128	164	18	G 3/8"	84	R 1/8"	150	10	15	75	93
DM 15/55	153	177	235	25	G 1/2"	87	R 1/4"	217	18	30	112	136
DM 25/125	200	232	312	35	G 1"	123	R 1/4"	287	28	40	140	170
DM 40/315	270	312	426	42	G 1 1/2"	109	R 1/2"	388	30	60	190	227
DM 50/565	350	385	540	45	G 2"	158	R 1/2"	485	30	60	270	282
DM 80/800	480	580	800	100	G 3"	388	R 3/4"	690	40	75	395	495

PUMP CODE

	08/10	10/25	15/55	25/125	40/315	50/565	80/800
Max capacity (l/min)	10	25	55	125	315	565	800
Max pressure (bar)	8						
Nominal port size	1/4"	3/8"	1/2"	1"	1 1/2"	2"	3"
Air connection	R 1/8"	R 1/8"	R 1/4"	R 1/4"	R 1/2"	R 1/2"	R 3/4"
Suction lift dry (mWC)	0.5/1.5*	2.0	3.0	4.0	4.0	5.0	5.0
Suction lift wet (mWC)	9.0						
Max diameter solids (mm)	2	3	4	7	10	12	15
Temperature limits - PE (°C)	70	70	70	70	70	70	70
Temperature limits - PTFE (°C)	110	110	120	120	120	120	120
Weight- PE (kg)	0.9	1.4	5	9	23	42	170
Weight - PTFE (kg)	1.4	2.4	7	16	43	87	-
Material of pump housing	PE, PTFE						PE
Diaphragm options	TFM/PTFE	NBR, EPDM or TFM/PTFE					
Valve balls	PTFE, AISI 316	NBR, EPDM, PTFE, AISI 316, PU					NBR, EPDM, PTFE
Rod valves	PTFE		PE or PTFE				-
O-rings	NBR, EPDM, FEP/FPM, PTFE+EPDM or PTFE+FPM						

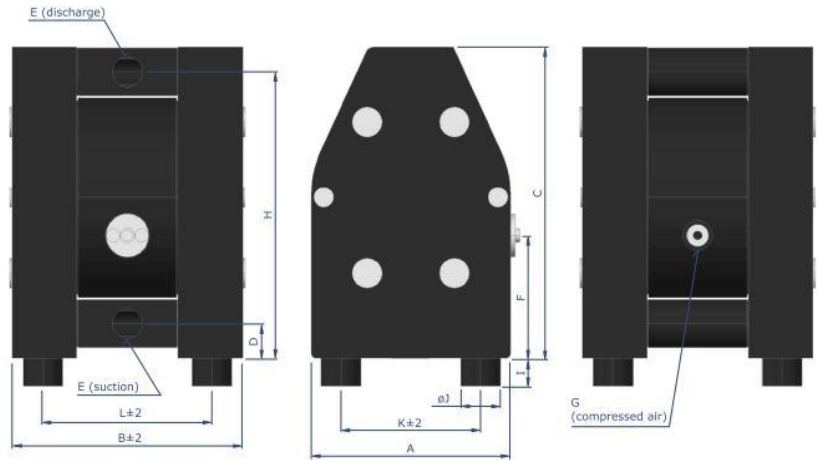
* 0.5 m for ball valves, 1.5 m for rod valves



WHERE ATEX IS REQUIRED

The plastic pumps manufactured of conductive PE and PTFE are constructed to enable grounding of non-metallic pumps. This feature allows the pump to safely transfer solvents, alcohols and other volatile liquids without the danger of static electricity build-up. These features apply also to the aluminium, cast iron and AISI 316 pumps.

DIMENSIONAL DRAWING



DIMENSIONS	A	B	C	D	E	F	G	H	I	ØJ	K	L
DM 08/10	70	113	120	15	G 1/4"	58	R 1/8"	107	10	15	50	86
DM 10/25	105	128	164	18	G 3/8"	84	R 1/8"	150	10	15	75	93
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DM 40/315	270	312	426	42	G 1 1/2"	109	R 1/2"	388	30	60	190	227
DM 50/565	350	385	540	45	G 2"	158	R 1/2"	485	30	60	270	282
DM 80/800	480	580	800	100	G 3"	388	R 3/4"	690	40	75	395	495

ATEX CE II 2GD TX

PUMP CODE

	08/10	10/25	15/55	25/125	40/315	50/565	80/800
Max capacity (l/min)	10	25	55	125	315	565	800
Max pressure (bar)	8						
Nominal port size	1/4"	3/8"	1/2"	1"	1 1/2"	2"	3"
Air connection	R 1/8"	R 1/8"	R 1/4"	R 1/4"	R 1/2"	R 1/2"	R 3/4"
Suction lift dry (mWC)	0.5/1.5*	2.0	3.0	4.0	4.0	5.0	5.0
Suction lift wet (mWC)	9.0						
Max diameter solids (mm)	2	3	4	7	10	12	15
Temperature limits - PE (°C)	70	70	70	70	70	70	70
Temperature limits - PTFE (°C)	110	110	120	120	120	120	120
Weight- PE (kg)	0.9	1.4	5	9	23	42	170
Weight - PTFE (kg)	1.4	2.4	7	16	43	87	-
Material of pump housing	PE conductive, PTFE conductive						PE conductive
Diaphragm options	TFM/PTFE	NBR, EPDM or TFM/PTFE					
Valve balls	PTFE, AISI 316	NBR, EPDM, PTFE, AISI 316, PU					NBR, EPDM, PTFE
Rod valves	PTFE		PE or PTFE				-
O-rings	NBR, EPDM, FEP/FPM, PTFE conductive +EPDM or PTFE conductive +FPM						

* 0.5 m for ball valves, 1.5 m for rod valves

ATEX pumps are designed to meet ATEX regulations for pneumatic diaphragm pumps handling flammable liquids. All material construction with approved NBR, EPDM or PTFE/TFM elastomers.

