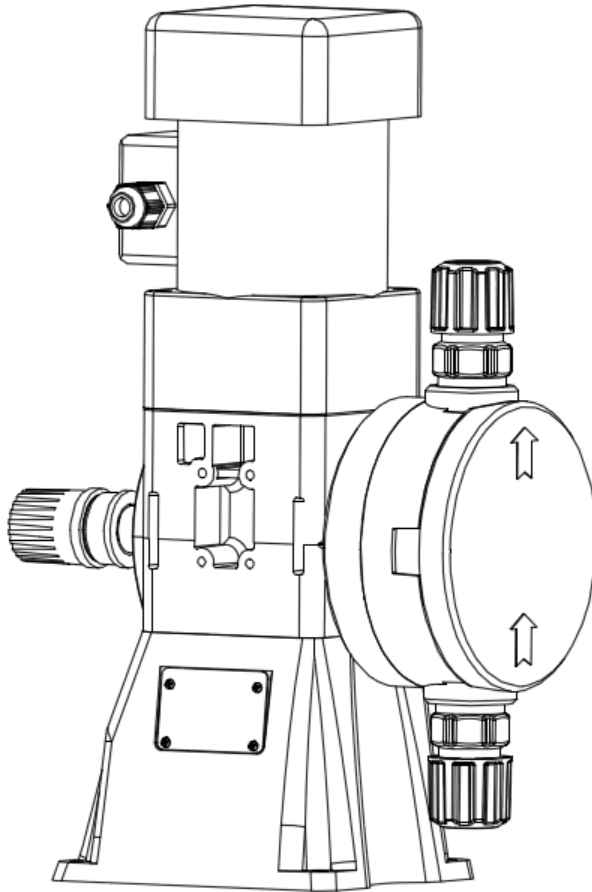




TECHNICAL SPECIFICATIONS

- Flow rate: 10 ÷ 120 l/h
- Max pressure: 5 bar
- Motor:
 - 0.06 kW - 3ph (IP55)
 - 0.06 kW - 1ph (IP55)
- Stroke rate: from 26 to 144 stroke /minute
- Stroke length: 4.2 - 5 - 6.8 mm
- Diaphragm diameter: 70mm
- Pump head:
 - SS 316
 - PVDF
- Max temperature:
 - SS 316 40°C
 - PVDF 40°C
- Ambient dosing temperature:
 - +5 ÷ +45 °C
- Storing temperature:
 - -10 ÷ +50 °C

MSV Series is a new motor driven mechanical diaphragm pump featuring a vertically mounted, high efficiency, high performing motor, within a PVC housing. Enhanced by its dual cam mechanical structure, the pump features high levels of stability whilst remaining a low noise unit and offering a very precise flow rate.

Suitable for a wide range of uses, it offers a high level of repetitive accuracy and is capable of pumping a wide range of viscous liquids, slurries or chemicals.

The MSV series electric motor drives pump mechanism's plunger backwards and forwards, drawing the membrane and creating suction from the supply chamber. The resulting volume change in the pump chamber in turn pushes the ball up and generates a squeezing action to effect fluid transfer.

The flow rate of between 10÷120 l/h can be adjusted by regulating the stroke length.

MSV Pump offers the following key features designed to ensure efficient, long term reliable pumping and fluid transfer:

- Reduced Footprint – to make installation easier
- Robust plastic outer case – ensures ease of installation and durability
- Simple but robust construction – provide ideal value for money
- High efficiency motor 0.06 kw with high flow rate 10÷120 l/h

PUMP KEY CODE

Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10
M	SV	F	070	R	41	XT	0	0	0

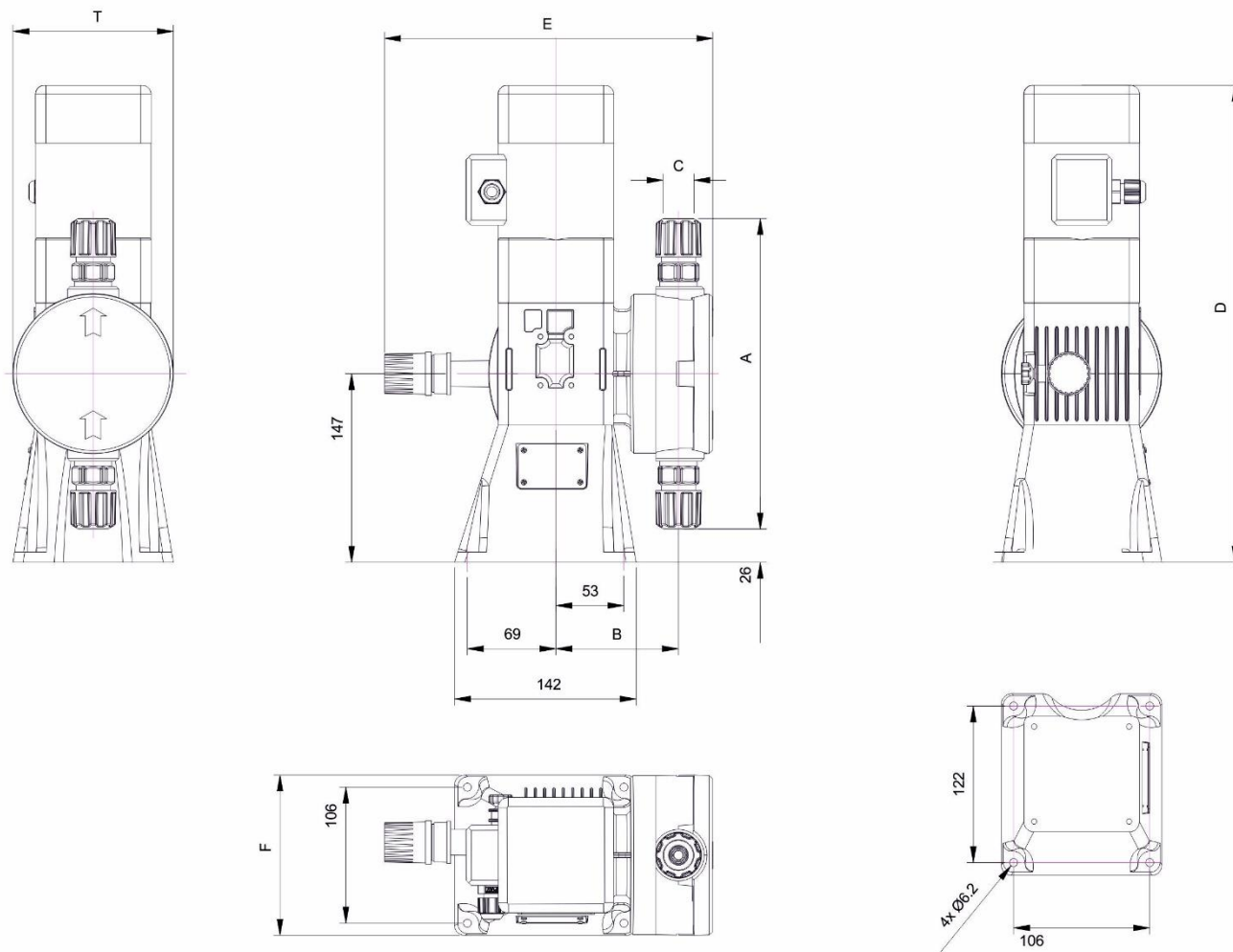
Field 1	model	
Field 2	mechanism family	
Field 3	stroke length	
Field 4	diaphragm diameter	
Field 5	stroke rate	
Field 6	pump head material	
Field 7	electric motor type	
Field 8	stroke regulation	
Field 9	customization	
Field 10	optional	

Field 1	model	M Diaphragm		
Field 2	mechanism family	SV Membrane		
Field 3	stroke length	[mm]		
	I	4,2		
	F	5		
	H	6,8		
Field 4	diaphragm diameter	[mm]		
	070	70		
Field 5	stroke rate	stroke/1' (@ 50 Hz)		
	M	130		
	N	86		
	O	43		
	P	26		
	R	144		
Field 6	pump head material	head	diaphragm	O-Ring
	21	SS316	PTFE	FPM
	24			EPDM
	41			FPM
	44			EPDM
Field 7	electric motor type			
	XT	0,06 kW (4 poles - 3phases - 380 Vac - 50/60 Hz)		
	XD	0,06 kW (4 poles - 1phase - 220 Vac - 50 Hz)		
Field 8	optional			
	0	standard		
Field 9	customization			
	0	Standard		
Field 10	optional			
	0	Standard		

HYDRAULIC CHARACTERISTICS

Pump Model	Diaphragm Diameter [mm]	Stroke/min @ 50 Hz	Flow rate @ 50 Hz		Max back pressure		Suction/Discharge Connection		Electric Motor 3ph – 380 Vac 1ph – 220 Vac
					bar	p.s.i.			
			l/h	g/l/h	SS 316 / PVDF	SS 316 / PVDF	SS 316	PVDF	
M S V I 0 7 0 P	70	26	10	2.64	5	72.52	3/8" g/f	8 x 12	0.06 kW – 4 poles
M S V I 0 7 0 O		43	20	5.28	5	72.52			
M S V I 0 7 0 N		86	40	10.57	5	72.52			
M S V I 0 7 0 M		130	60	15.85	5	72.52			
M S V F 0 7 0 R		144	90	23.78	5	72.52			
M S V H 0 7 0 R		144	120	31.70	3	43.51			

DIMENSIONS



A [mm]	B [mm]	C [BSP / mm]	T[mm]	Single / Three Phases motor		
				D[mm]	E [mm]	F [mm]
242	93.5	AISI 316	1/2" g/f	372	372	256
		PVDF	8 x 12 (std)			

