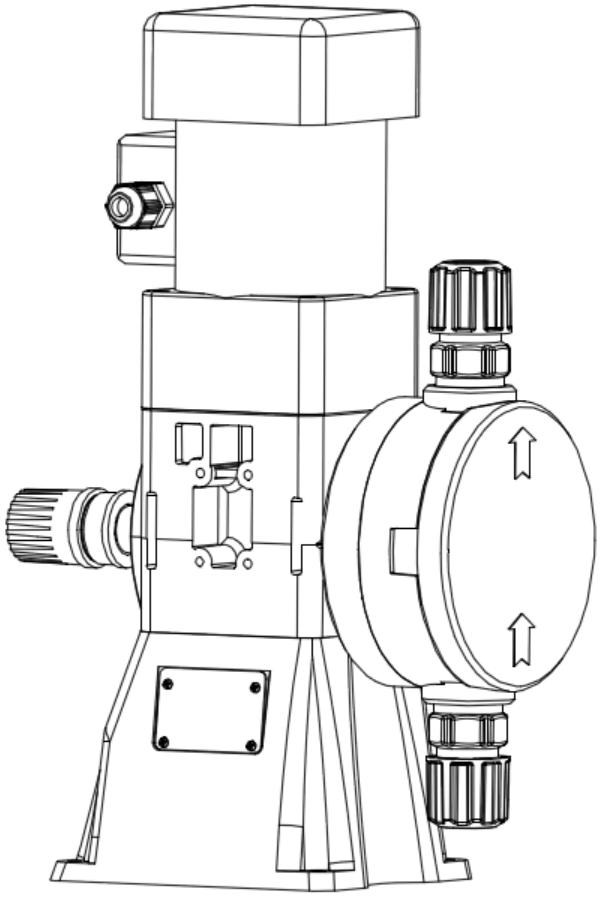
DOSING PUMP

MSV SERIES – Mechanical diaphragm pump



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 to144 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
- Stocking 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:

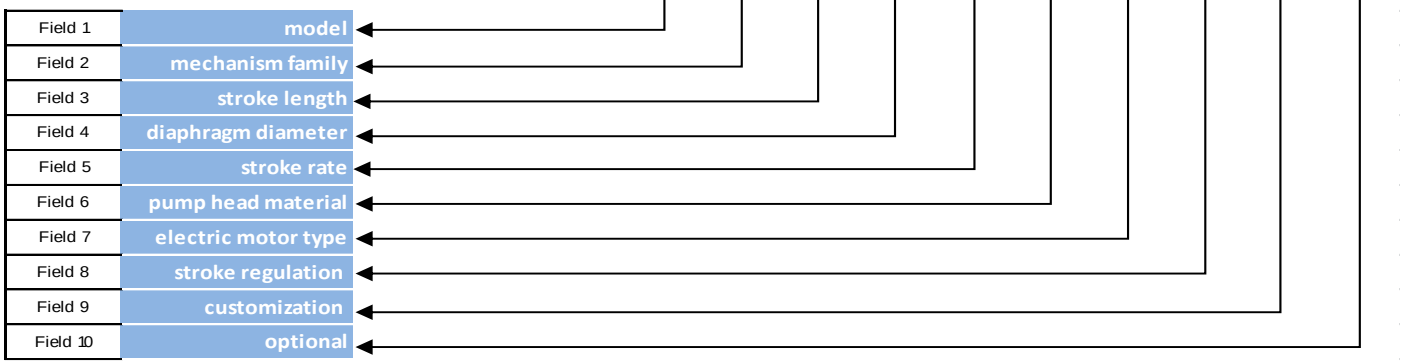
- Reduced Footprint – to make installation easier
- Robust plastic outer case – ensures ease of installation and durability
- Simple but robust construction – provide ideal value for money
- High efficiency motor 0.06 kw with high flow rate 10÷120 l/h

DOSING PUMP

MSV SERIES – Mechanical diaphragm pump

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

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	PVDF		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*

Technical data can be changed without notice.
TD_MSV_Series_rev 0.4

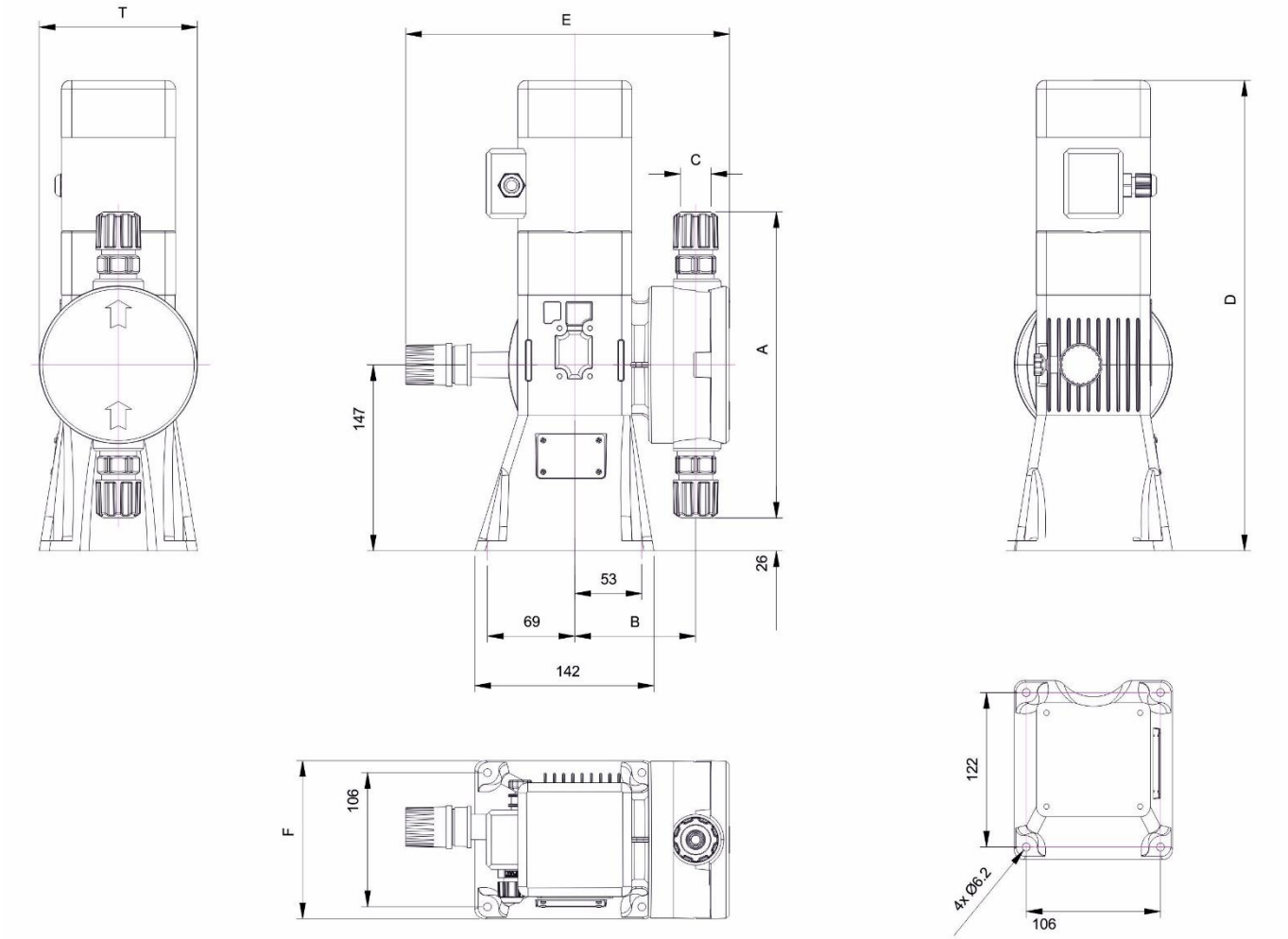
DOSING PUMP

MSV SERIES – Mechanical diaphragm pump

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	gl/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			

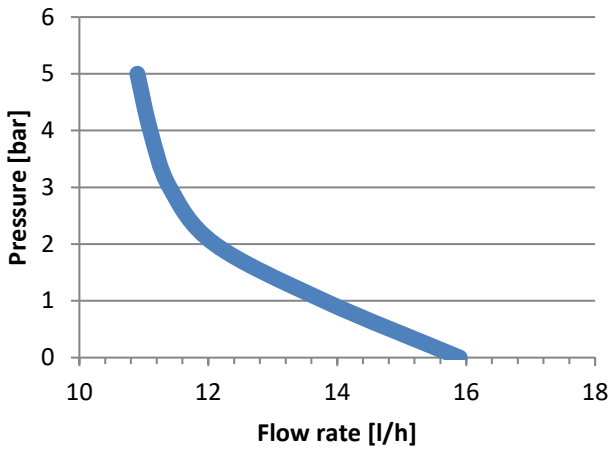
DIMENSIONS



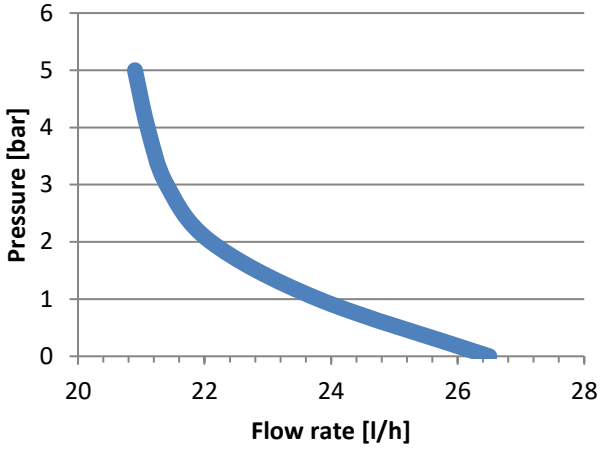
A [mm]	B [mm]	C [BSP / mm]		T[mm]	Single / Three Phases motor D[mm]	E [mm]	F [mm]
242	93.5	**AISI 316**	1/2" g/f	**372**	**372**	**256**	**125**
		PVDF	8 x 12 (std)				

Technical data can be changed without notice.
TD_MSV_Series_rev 0.4

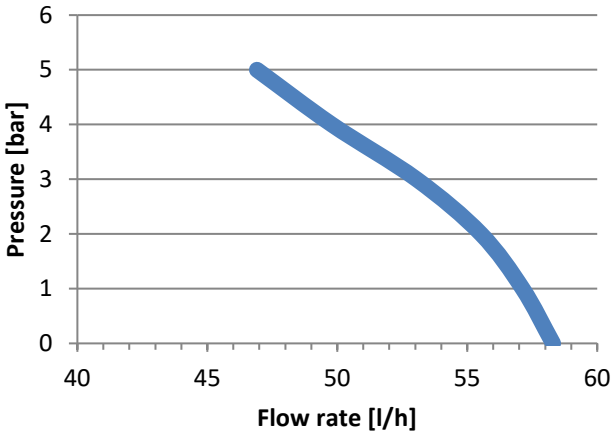
MSVI070P - 10 l/h



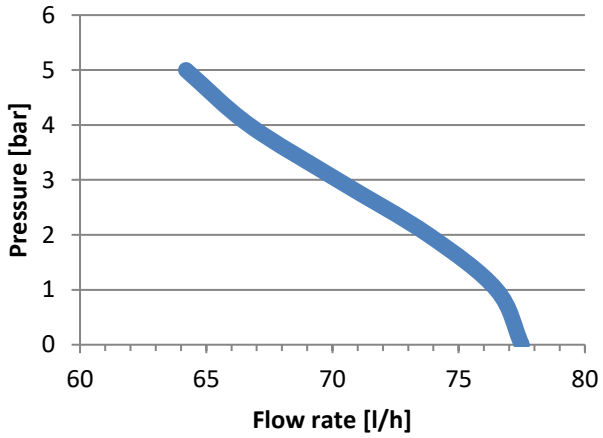
MSVI070O - 20 l/h



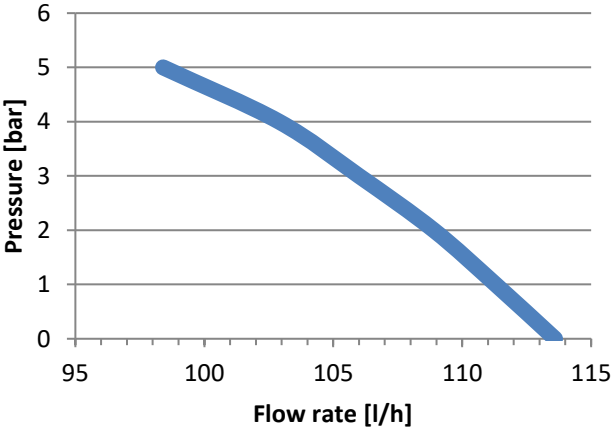
MSVI070N - 40 l/h



MSVI070M - 60 l/h



MSVF070R - 90 l/h



MSVH070R - 120 l/h

