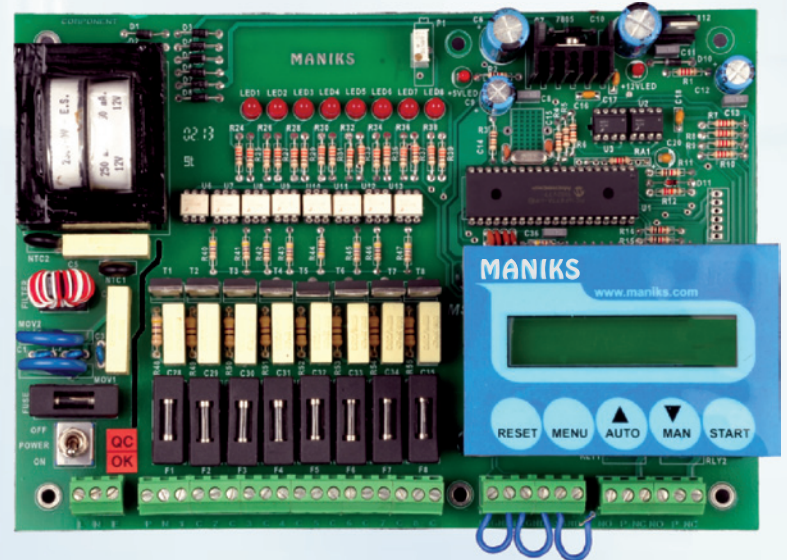




# MANIKS



**Manufacturers of Reverse Jet Pulse Valves & Sequential Timers for Bag filters**



## Introduction

**MANIKS** is a completely Indian brand of repute and reliability with an established successful track record of many an installation in the Indian continent as well as overseas projects. With a history of 35 years for manufacturing reverse jet pulse valves (used in bag filter applications) and the sequential timers used in conjunction with them, the **Maniks** brand has become a signature of prompt deliveries and consistent performance in the most challenging environments of cement, steel and such other dust generating industries.

The company was founded and developed with the incessant efforts of Mr. Shekhar Kulkarni, an IIT Mumbai alumnus, with a vision to substitute expensive imported products with scarcity of spares and delayed deliveries, with a reliable Indian product with excellent quality and backup service, and more importantly, products absolutely suitable for Indian industrial conditions.

Our quality policy states our priority is to exceed the "demands and expectations" of our customers and aim for repeat orders and customer loyalty. Thus "Brand loyalty" is the highlight of our organization which drives us for continual improvement.

Many of our customers – OEMs, Cement manufacturers and other and users such as Chemical and Food industries have expressed their complete satisfaction regarding the performance of our products working to clean their Bagfilters. Their faith in our abilities is reflected with repeat Orders over the years, for not just spares but also fresh requirements coming up from time to time.

Also, following years of association, our overseas Customers now know that we can successfully help with scientific import substitution and technical knowledge prompting them to send us imported samples along with their requirements for import substitution. This requirement has been successfully addressed. We hence also export to the Gulf countries, Bangladesh and Kenya where our products have been standardized by this Clientele for many years now.



# MANIKS



We have also been recently declared an award named  
' **SIGNIFICANT PROGRESS IN PERFORMANCE EXCELLENCE** '  
by

**CII Institute of Quality.**





# MANIKS

## PILOT OPERATED REVERSE - JET PULSE VALVE

### General Description :

**Maniks** has developed Pulse and Pilot Valve for reverse pulse jet bag filters, offering precisely engineered product of market need. Pulse Valve has just one moving part , the diaphragm. The unique springless construction provides fast opening and closing of the valve.

The high speed operation besides saving of compressed air,helps to provide shock air wave for dislodging of dust from filter bags. High flow,long life and fast diaphragm action produce reliable and economical operation.

### Installation :

Mounting in any position will not affect operation. However good engineering practice is to avoid scale and condensed water entering valve body for trouble free performance . Standard end connections of BSP are provided.



MEP 16



MEP 18



MEP 114



MEP 116



MEP 120



TMEP 116

### SPECIFICATIONS

Electrical Standard Voltage  
AC 50Hz/60Hz  
DC... 24 Volts  
fluctuation- + 10 %

### POWER CONSUMPTION

20 W DC Current  
19 VA AC Current

### TEMPERATURE RANGE

Maximum Medium Temperature 65°C  
Maximum Ambient Temperature 55°C

# MANIKS

## SPARES FOR REVERSE - JET PULSE VALVES

**Maniks** manufactures all kind of spares for reverse-jet pulse valves used in bag filters for dust collection, used typically in cement and steel plants. These spares are compatible with valves of various makes like **Maniks** and others. The diaphragms are made application-specific by manufacturing in various materials like special Imported polyester, neoprene and viton( for high temperature).

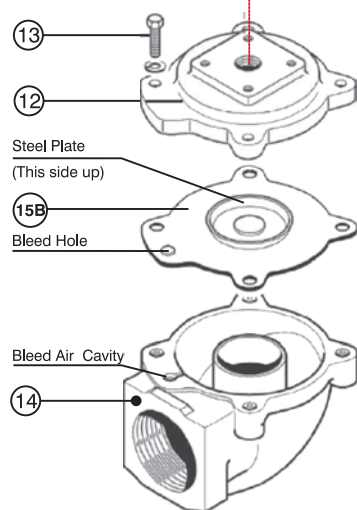
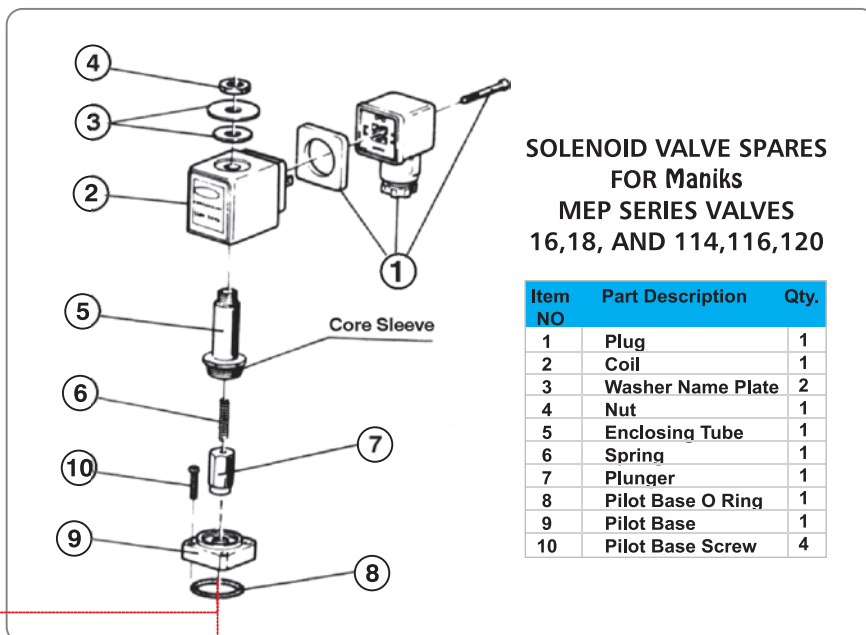


Fig.1

MEP-16 -18

VALVE SINGLE STAGE DIAPHRAGM		
Item No .	Part Description	Qty.
12	Cover	1
13	Cover Screw	4
14	Body	1
15 B	Diaphragm	1

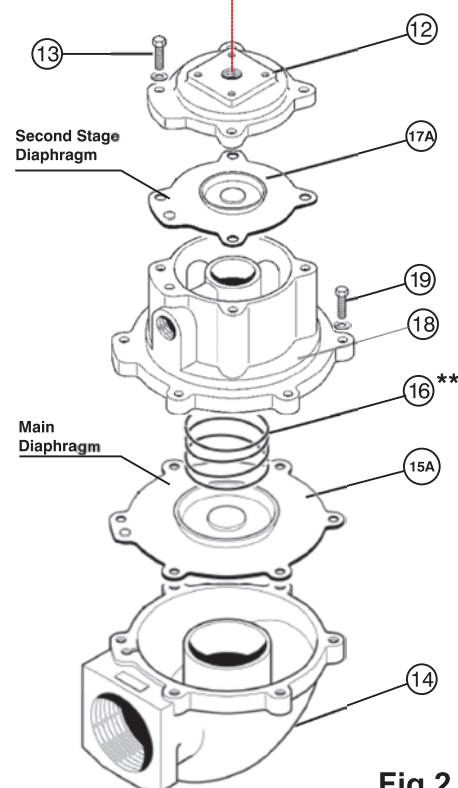


Fig.2

MEP -114 - 116 - 120

VALVE DOUBLE STAGE DIAPHRAGM		
Item No .	Part Description	Qty.
12	Pilot Cap	1
13	Pilot Cap Screw	1
14	Body	1
15 A	Main Diaphragm	1
16	Spring (Optional)**	1
17A	Second Stage Diaphragm	1
18	Cover	1
19	Cover Screw	6

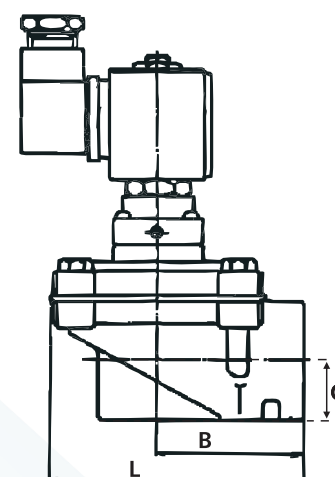
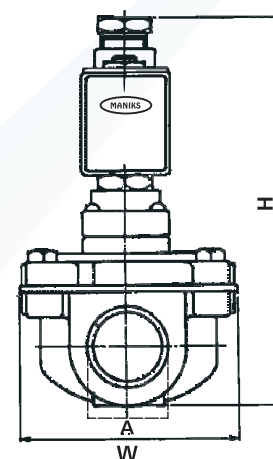
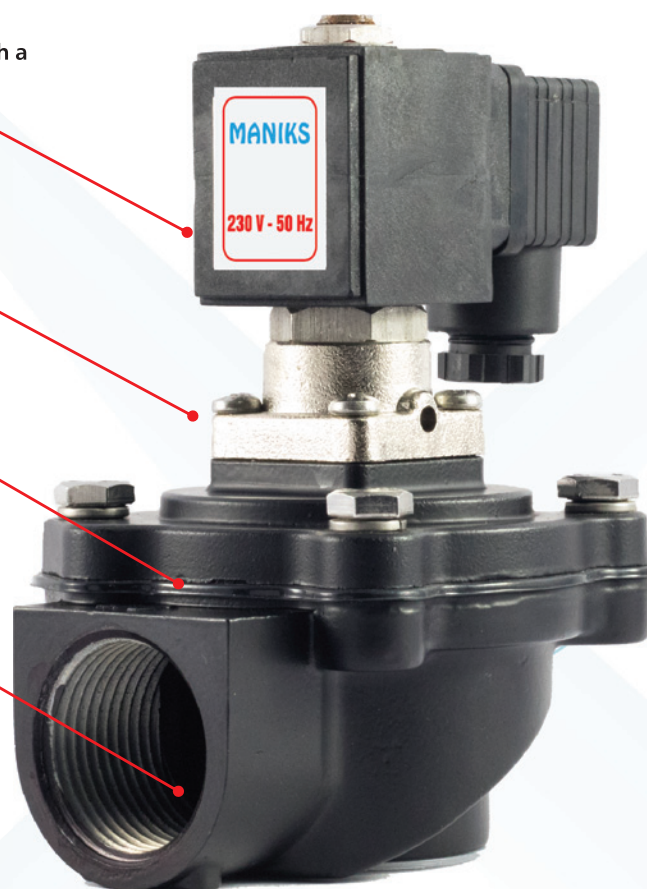
# MANIKS

Encapsulated Coil provided with a waterproof plug-on connector DIN 43656

Electric pilot with Proper large orifice size for a fast Opening characteristics

High performance Diaphragm, designed For long service life at high speed of operation

Body and cover in die cast aluminum alloy



**DIMENSION TABLE**

TYPE NAME	THREAD SIZE	A (Inch)	B (MM)	C (MM)	L (MM)	W (MM)	H (MM)	WEIGHT Gms.
MEP 16	¾"	¾"	52	22	90	75	130	750
MEP 18	1"	1"	52	22	90	75	130	700
MEP 114	1½"	1½"	72	31	133	137	191	1570
MEP 116	2"	2"	94	45	167	165	229	3000
MEP 120	2½"	2½"	94	45	167	165	229	2600

# MANIKS

DIAGRAM  
SPARE NO.

MANIKS ITEM CODE No.

AVAILABLE  
IN MATERIALS

17 A



**D -16**

Secondary Diaphragm for :  
Maniks - MEP114(11/2"), 116(2"),  
MEP120(21/2")  
And all other similar brands of pulse valves.  
(Refer figure No.2)

Imported Polyester ,  
Viton

15 B



**D-18**

Diaphragm for :  
Maniks - MEP-16 (3/4"), 18(1")  
And all other similar brands of pulse valves.  
(Refer figure No.1)

Imported Polyester ,  
Viton

15 A



**D-112**

Diaphragm for :  
Maniks - MEP-112(11/2")  
And all other similar brands of pulse valves.

Imported Polyester ,  
Viton

15 A



**SD-112**

Main Diaphragm for 11/2"  
pulse valves of brands  
similar to MANIKS  
(Refer figure No.2)

Imported Polyester ,  
Viton

15 A



**D-114**

Main Diaphragm for :  
Maniks - MEP-114(11/2")  
and all other similar brands of pulse valves.  
(Refer figure No.2)

Imported Polyester ,  
Viton

15 A



**D-1116**

Main Diaphragm for :  
Maniks - MEP-1116(2")  
and all other similar brands of pulse valves.  
(Refer figure No.2)

Imported Polyester ,  
Viton

15 A



**D -1120**

Main Diaphragm for :  
Maniks - MEP-1120(21/2")  
and all other similar brands of pulse valves.  
(Refer figure No.2)

Imported Polyester ,  
Viton



# MANIKS

DIAGRAM  
SPARE NO.

MANIKS ITEM CODE No.

AVAILABLE  
IN MATERIALS

15 A



**DM -116**

Main Diaphragm for :  
2" pulse valves of brands  
similar to MANIKS  
(Refer figure No.2)

Imported Polyester ,  
Viton

17 A



**DA-16**

Secondary Diaphragm for :  
2" & 2 1/2" pulse valves of  
brands similar to MANIKS  
(Refer figure No.2)

Imported Polyester ,  
Viton

17 B



**DOF - 16**

Secondary Diaphragm for 1 1/2"  
pulse valves with Integral  
Pilot Operated Valve of  
brands similar to MANIKS  
(Refer figure No.3)

Polyester , Viton  
&  
Neoprene

17 B



**DCF -16**

Secondary Diaphragm for 1 1/2"  
pulse valves with  
Remote Pilot Operated  
type of brands similar to MANIKS  
(Refer figure No.3)

Polyester , Viton  
& Neoprene

17 B



**DAR -16**

Secondary Diaphragm for 1 1/2"  
pulse valves of  
brands similar to MANIKS  
(Refer figure No.2)

Neoprene

15 A



**D -124**

Main Diaphragm for 3"  
pulse valves of  
brands similar to MANIKS  
(Refer figure No.2)

Neoprene & Viton



Spare Diaphragm Spring :  
Will be supplied if required

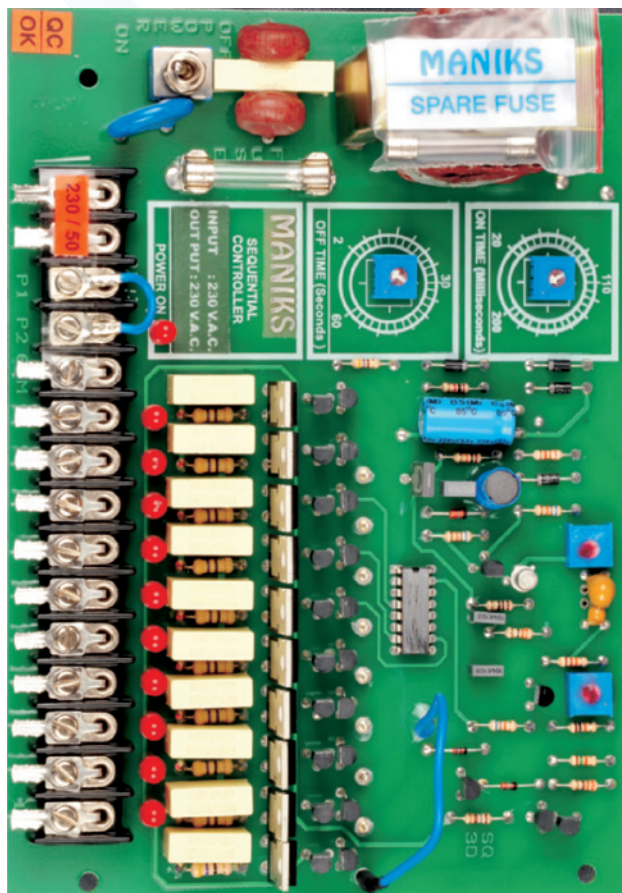
## SOLENOID VALVE AND SPARES



**Note : For temperature higher than 65°C we recommend diaphragms in Viton material for longer life.**

# MANIKS

## SOLID STATE SEQUENTIAL CONTROLLER



### DESCRIPTION

The **MANIKS** Sequential Controller has been designed to operate the **MANIKS** pilot valves used on dust collector equipment. Light emitting diodes (LEDs) provide visual indication of which pilot valve is being energized as well as "Power On" indication. The number of sequenced steps is adjustable from 2 through 10. Controls are provided to adjust the length of time between valves being de-energized (Pulse Frequency / Off time) and the length of time that the valve is energized (Pulse Duration / On time). Silicon semiconductor components control all timing and logic functions.

Two independent methods of starting and stopping the Controller are provided. The first method will automatically stop the sequence and reset the Controller to the first valve position whenever A. C. power is removed and then reconnected.

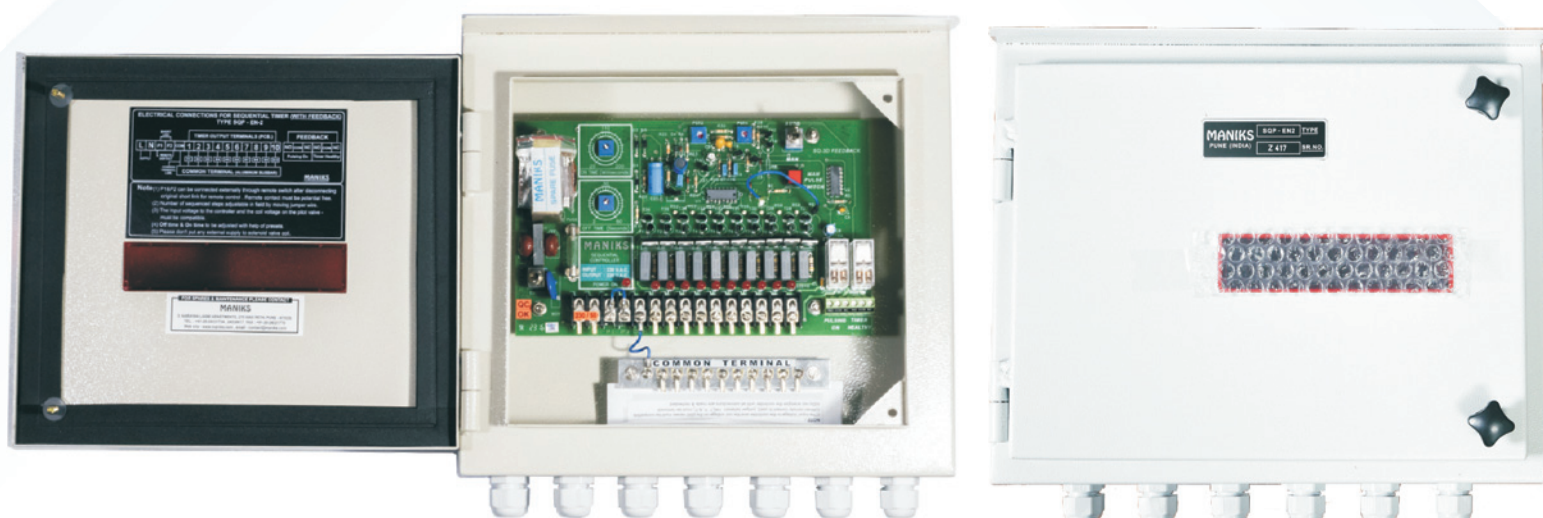
The second method is by a remote control contact connected to the terminals provided. When the remote contact is opened, the sequence stops. When the remote contact is reclosed, the sequence continues from the *previous* position.

### DIMENSIONS

STANDARD TIMER PCB			
Timer	Length(L)	Width(W)	Height(H)
10 ch	194 mm	137 mm	50 mm
18 ch	280 mm	137 mm	50 mm
40 ch	280 mm	235 mm	50 mm

TIMER PCB WITH FEEDBACK & AUTO/MANUAL		
Length(L)	Width(W)	Height(H)
225 mm	137 mm	50 mm
310 mm	137 mm	50 mm
280 mm	235 mm	50 mm

Available in 10,18, 27 and 40 channel variants





# MANIKS

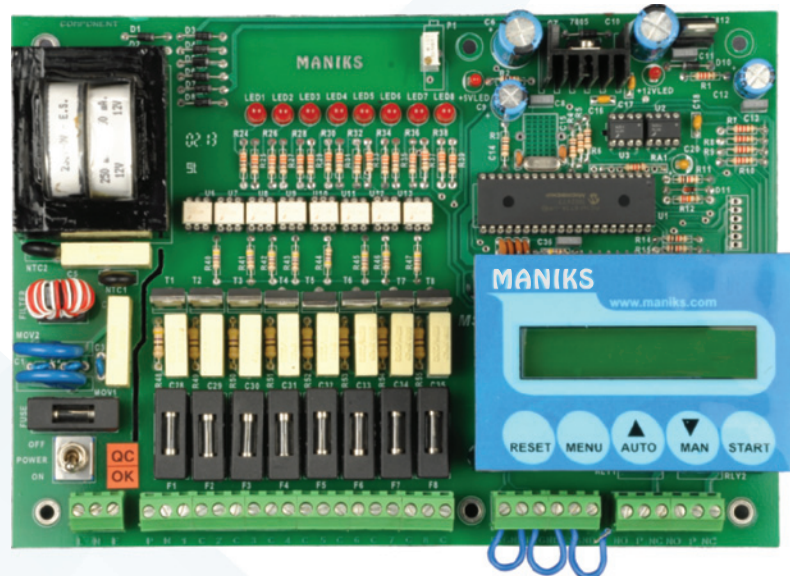
## Micro Controller Based Bag Filter Timer

### DESCRIPTION

The **MANIKS** Controllers of this series are micro controller based units which can be programmed to suit clients actual requirements. There are two basic modes of operation : a)Program Mode b)Manual Mode

In "program Mode" the unit can be programmed to follow desired set of instructions and in "Manual Mode" we can operate out put ( Pilot Valves ) sequentially. This controller has been designed to operate the pulse solenoid valves used on dust collector equipments.

The controller has been provided with **SEEPROM** to retain programmed values of various parameters in case of power failure. The programmed values automatically get stored in **SEEPROM**. This **SEEPROM** will last up to 1million read/write operations and the stored data will be retained up to many years.

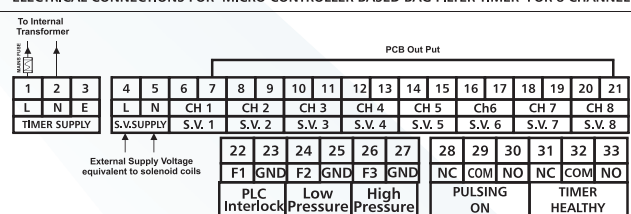


These controllers are available in 8 CHANNEL,16 CHANNEL,32 CHANNEL ,48 CHANNEL variants

### STANDARD PCB DIMENSIONS

Timer	Length(L)	Width(W)	Height(H)
08 ch	225 mm	155 mm	55 mm
16 ch	310 mm	137 mm	55 mm
32 ch	300 mm	235 mm	55 mm
48 ch	300 mm	235 mm	55 mm

### ELECTRICAL CONNECTIONS FOR MICRO CONTROLLER BASED BAG FILTER TIMER FOR 8 CHANNEL



### CAUTION :-

Always use potential free "NO" contact of "H" & "LO" pressure switches. If any of the pressure switch is not used, then keep the corresponding Terminals shorted.



# MANIKS

- We offer special service for your existing system components for pneumatic pulse application, to recondition your inoperative valves and assure operating reliability as good as new . DO NOT scrap your valves (ONLY IMPORTED) unless inspected by our experts.
- We offer SPARE DIAPHRAGMS , PILOT SOLENOIDS and COILS for your
- We provide special enclosures for timers such as flame proof enclosures , SS enclosures , IP65 enclosures on request.
- We also cater to special requirement such as flame proof enclosures for valves .



## OUR STRENGTH

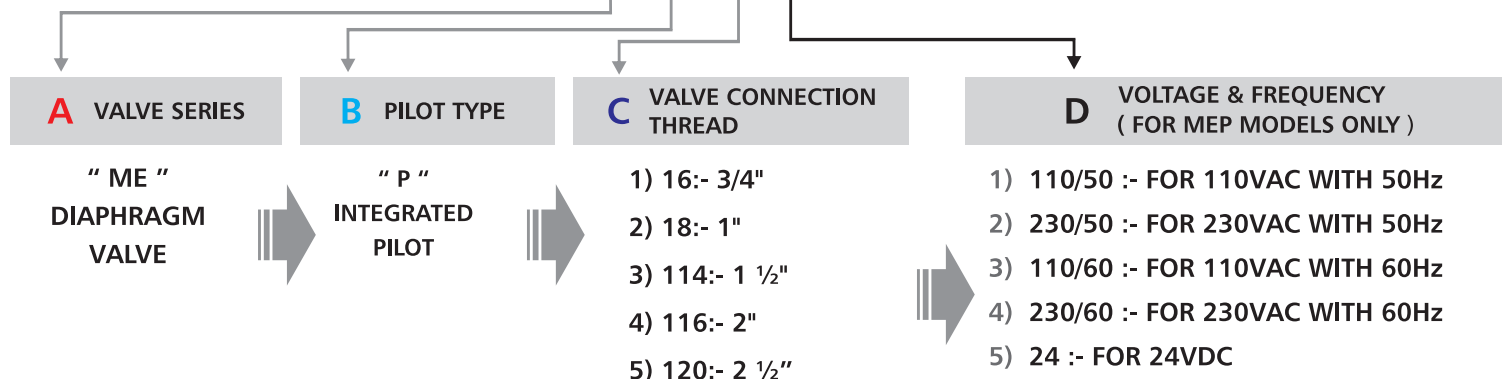
1. Our manufacturing process is completely optimised, to cater to our customer requirements, with stringent QC and QA there is no compromise on quality. This gives us the confidence to guarantee swift and efficient delivery that complies with international standards. 80% of the times we are able to give Ex- stock delivery.
2. We also stand committed to very prompt and efficient after-sales service, something that is not readily offered on the table for the category of our products. Owing to years of on-field experience, our service engineers and back-end technicians have in-depth knowledge of not just our own product, but also the entire operating system. This helps in quick troubleshooting and saving any unexpected outages.
3. The imported polyester diaphragms used in our valves have a much longer life as compared to any other valves in the industry.

## OUR CLIENT LIST INCLUDES

OEM's/Engg. Industries	Cement Industries	Steel,	Overseas Customers	Power sector
Thermax India	Indian Cement Group.	Bhushan Group.	Sonapur Cement: - Nepal.	NTPC.
Macawber Beekay	B.K Birla Group.	JSW Steel	Shivam Cement: - Nepal.	JSW ENERGY.
Soil & Enviro	C.K. Birla Group.	BMM Ispat Ltd.	Siddharth Cement: - Nepal.	LANCO GROUP.
Batliboi	Dalmia Cement Group.	Jindal Stainless .	Ambe Cement: - Nepal.	
Nesco	Shree Cement Group.	Essar	Brij Cement: - Nepal.	
RIECO Ind.Ltd.	Chettinad Cement Group.	SAIL	Bishal Cement: - Nepal.	
S K Systems	Deccan Cement	TATA Steel Ltd.	Mombassa Cement: - Kenya.	
Scorpio Engg.	Ambuja and ACC cement Group (Now	Birla Copper	ARM Cement: - Kenya.	
FLSmidth(I)Pvt. Ltd.	Lafarge Holcim).	Hindalco	National Cement: - Kenya, Nairobi.	
Ionization filtration	Ultratech Cement Group.	Industries Ltd.NALCO	Lafarge Holcim Cement: - Bangladesh.	
Ducon Technologies	Shree Chakra Cement.	BALCO	Gulf Cement: - UAE.	
Elex India Pvt. Ltd.	Ramco Cement		RAK Cement: - UAE.	
Macon(I)Pvt.Ltd.			Falcon Cement: - Bahrain.	
			Diamond Cement: - Africa.	
			Qatrana Cement: - Jordan.	
			Erbil Steel: - Iraq.	

## ORDERING INFORMATION FOR DIAPHRAGM VALVES WITH THREADED CONNECTIONS

**A+B+C+D = ORDERING CODE**



### EXAMPLES FOR ORDERING CODES

1) TO ORDER 1" CONNECTION VALVE WITH 110VAC & 50Hz SUPPLY

" **MEP18** -110/50 "

2) TO ORDER 2" CONNECTION VALVE WITH 24VDC SUPPLY

" **MEP116** - 24 "

## ORDERING INFORMATION FOR - SOLID STATE SEQUENTIAL TIMER

**A+B+C+D+E+F+G+H = ORDERING CODE**

A	B	C	D	E	F	G	H
SOLIDSTATE TIMER SERIES	NO.OF CHANNELS	OUTPUT DEVICE	SUPPLY PROTECTION	INPUT SUPPLY	SOLENOID SUPPLY	ENCLOSURE TYPE	OUTPUT
S: SOLID STATE TIMER WITHOUT FEEDBACK	10-10 CHANNEL 18-18 CHANNEL 27-27 CHANNEL 40-40 CHANNEL	T- TRIAC	- : WITHOUT SUPPLY PROTECTION S : WITH SPIKE PROTECTOR	230 VAC 110 VAC 24 VDC	230 VAC 110 VAC 24 VDC	E0 : WHEN ORDERING PCB E5 : WITH IP55 CLASS ENCLOSURE E6 : WITH IP65 CLASS ENCLOSURE EF : FLAME PROOF ENCLOSURE NOTE : SS ENCLOSURE AVAILABLE ON SPECIAL REQUEST	FUZE PROTECTION

### EXAMPLES FOR ORDERING CODES

**EXAMPLE 1)** TO ORDER : 10CHANNEL TRIAC SOLID STATE TIMER WITH OUT SUPPLY PROTECTION WITH INPUT SUPPLY 230VAC, SOLENOID SUPPLY 110VAC & IP65 ENCLOSURE

**S10T230110E6**

**EXAMPLE 2)** TO ORDER : 18CHANNEL TRIAC SOLID STATE TIMER WITH SPIKE PROTECTOR ,INPUT SUPPLY 230VAC, SOLENOID SUPPLY 24VDC & IP65 ENCLOSURE .

**SFBAM18TS23024E6**

## ORDERING INFORMATION FOR MICRO- CONTROLLER BASED BAG FILTER TIMER

**A+B+C+D+E = ORDERING CODE**

A	B	C	D	E
TIMER SERIES	OUTPUT DEVICE	INPUT SUPPLY	SOLENOID SUPPLY	ENCLOSURE TYPE
M8 - 8 CHANNEL MICRO-CONTROLLER M16 - 16 CHANNEL MICRO-CONTROLLER M32 - 32 CHANNEL MICRO-CONTROLLER M42- 42 CHANNEL MICRO-CONTROLLER M48 - 48 CHANNEL MICRO-CONTROLLER	T- TRIAC	230 VAC 110 VAC 24 VDC	230 VAC 110 VAC 24 VDC	E0 : WHEN ORDERING PCB ONLY E5 : WITH IP55 CLASS ENCLOSURE E6 : WITH IP65 CLASS ENCLOSURE EF : FLAME PROOF ENCLOSURE NOTE : SS ENCLOSURE AVAILABLE ON SPECIAL REQUEST

### EXAMPLES FOR ORDERING CODES

1) TO ORDER 16CHANNEL TRIAC MICRO-CONTROLLER WITH INPUT SUPPLY 230VAC, SOLENOID SUPPLY 230VAC & Ip65 ENCLOSURE

**M16T230230E6**

2) TO ORDER 8CHANNEL TRIAC MICRO-CONTROLLER WITH INPUT SUPPLY 230VAC,SOLENOID SUPPLY 24VDC &FLAME PROOF ENCLOSURE

**M8T23024EF**

**Note : For output 24 VDC output devices will be transistors only.**

### CUSTOMER CARE CONTACT DETAILS

**MANIKS**

TEL. : 91-20 - 24331734 ,, FAX. : 91-20 - 24321770,WhatsApp - 8788951557( 24X7)  
Web site. : www.maniks.com / email. : sales@maniks.com



# MANIKS

EXPANDING POSSIBILITIES THROUGH QUALITY AND INNOVATION

V 19.1

