

# Manual Sanitary Diaphragm Valve

## Series- 250M & 260M

### MASCON ASEPTIC WIER DIAPHRAGM VALVE

Series 250 & 260

The aseptic diaphragm valve is the most important control element in today's bio-pharmaceutical process systems. Current designs and standards in pharmaceutical industry place ever higher demands on the sterility, cleanability, integrity & performance of the piping components. That is why all MASCON sanitary valves are supported with full material traceability along with food grade certification for diaphragms.

### Technical References of construction

Designing of MASCON valves confirms to:

BS 5156 Euro BS EN 13397 (2002)

Face to Face Dimensions confirming to:

BS EN 558-1 Series

Flanges Drilling Confirms to:

ANSI B 16.5 Class 125 & 150

### Material Specification:

Stainless Steel - ASTM A 351 Gr.CF8

Stainless Steel - ASTM A 351 Gr.CF8M

Stainless Steel - ASTM A 351 Gr.CF3M

### SUFFIX & PRIFIX USED IN OUR VALVES MODELS

Diaphragm Material		Material of construction	
Neoprene	NR	Cast Iron	CI
EPDM	ED	Ductile Iron	DI
EPDM (Food Grade)	EDF	SG Iron	SG
Silicon	SI	Cast Steel	CS
Viton	VI	Bronze	BNZ
EPDM Backed PTFE	ED+TF	SS 304	S4
<b>End Connections</b>		SS 316	S6
Butt Weld	BW	SS 316L	S6L
Triclover End	TC		
Screwed End (BSP 'F')	BSP		
Flanged End	FL		
SMS Union	SMS		
<b>Wheel Option</b>			
Cast Iron	CI		
ABS (Industrial Plastic Grade)	ABS		
SS 304	S4		

Standard prefixes of model:-

Basic Series of Valve		End Connections		Actuator Type		Bonnet Type		Wheel / Actuator Material	
NB CI Bodies	24	Butt Weld	0	Manual	M	Cast Iron	1	Cast Iron/Cast Steel	1
NB type Bodies	25	Tri-Clover	1			Cast Steel	2		
OD type Bodies	26	Screwed	2	Pneumatic	P	SS 304	3	SS 304	3
		Flanged	3						



**Note :-** \* We can provide BS EN 10204 - 3.1 Certification for all our Stainless Steel sanitary valves.

\* all MASCON diaphragm valves are supported with

1) MOC mill certificate.

2) FDA compliance food grade certificate for diaphragm.

3) RA finishing Graphs for internal finish < 0.4 Microns.

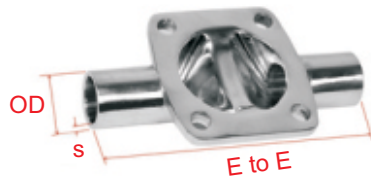
### Highlights of Aseptic Diaphragm Valves

- ✓ Self draining & Entrapment free design.
- ✓ Gland less isolating type top entry construction.
- ✓ Bi-Directional flow
- ✓ Diaphragm valves are recognized by the pharmaceutical industry as the only & truly aseptic valve.
- ✓ This is the only design that provides cavity free surface finish in real sense.
- ✓ These valves are available in manually and pneumatically operated also.

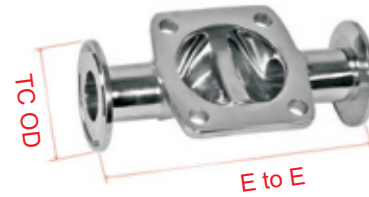
Read Model as below

25	0	M	3	2	40	S6	ED
Basic Series	End Connection	Actuator Type	Bonnet / Actuator MOC	Wheel Material	Size of Valve DN 40	Body Material	Diaphragm Material

### BUTT WELD END CONNECTION



### TRI-CLAMP END CONNECTION



### Dimension for Butt weld ends:-

Basic Series - 260				Basic Series - 250			
Size		ASME BPE TUBING		ANSI B 16.5	SCHEDULE PIPES		
DN (mm)	Pipe OD	S(16 swg.)	S(18 swg.)	Pipe OD	S (5 Sch.)	S (10 Sch.)	S (40 Sch.)
8	6.35	0.89	1.22	13.7	n/a	1.65	2.24
10	9.53	0.89	1.22	17.15	n/a	1.65	2.31
15	12.70	1.65	1.22	21.30	1.65	2.11	2.77
20	19.05	1.65	1.22	26.6	1.65	2.11	2.87
25	25.40	1.65	1.22	33.4	1.65	2.11	3.38
32	31.75	1.65	1.22	42.15	1.65	2.11	3.56
40	38.10	1.65	1.22	48.25	1.65	2.11	3.68
50	50.80	1.65	1.22	60.35	1.65	2.11	3.91
65	63.50	1.65	1.22	73.05	2.11	3.05	5.16
80	76.20	1.65	1.22	88.90	2.11	3.05	5.49

### Dimensions for Triclover ends :-

Size		Tri - clamp valve as per ASME BPLE For OD tubing	
DN (mm)	DN (inch)	End to End of Body (mm)	TC Ferule OD (mm)
8/10	½"	68	25
15 NB	12"NB	108	50.5
20	¾"	117	50.5
25	1"	127	50.5
40	1,1/2"	159	50.5
50	2"	190	64.0
80	3"	254	91.0

All Dimension confirm to ASTM BPE-2009

**!** Note :- MASCON reserves every right to make change in product & information without prior notice.