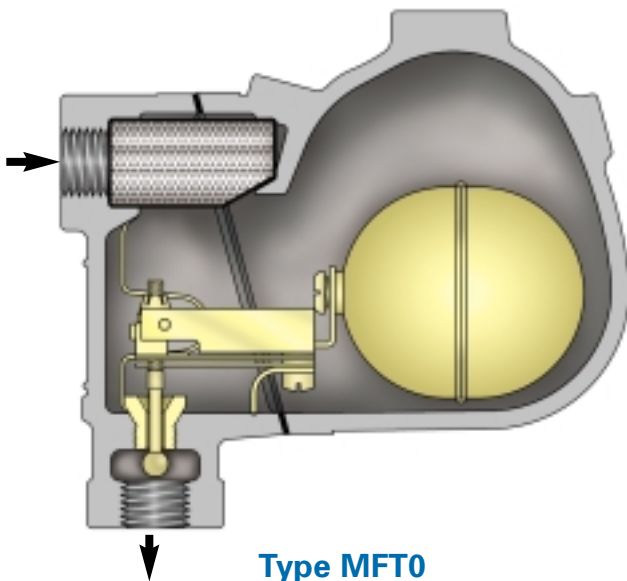
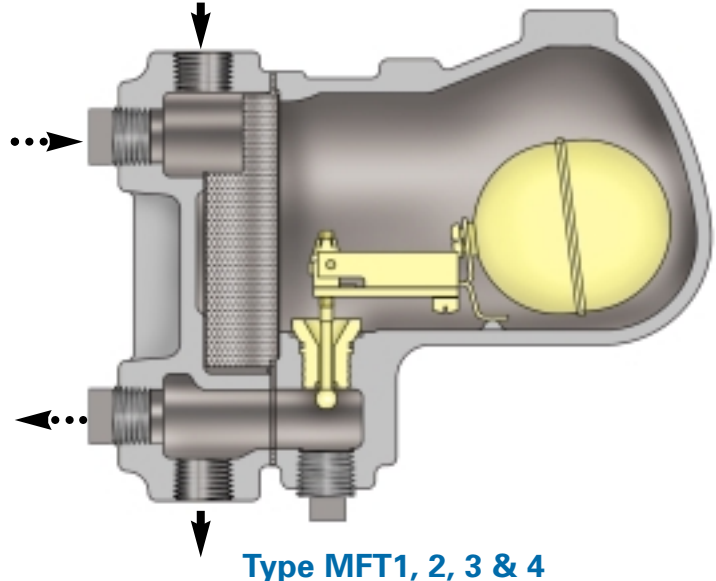


VELAN MONOVALVE FLOAT BIMETALLIC STEAM TRAPS

Type MFT/MFTS For Positive Drainage of Unit Heaters & Process Equipment
A Complete Unit: Built-in Strainer, Check Valve,
Air Vent & Optional Bypass Shut-Off



Type MFT0

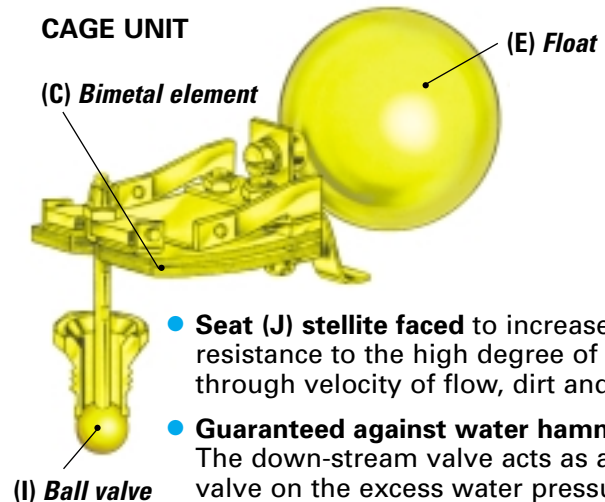


Type MFT1, 2, 3 & 4

TYPE MFT & MFTS DESIGN FEATURES

- **Positive closing and condensate drainage**
 The bimetallic element is a function of the saturated steam curve (pages 2 and 3) and it's sensitivity to the temperature change assures an immediate reaction to both steam and condensate for the entire pressure range. At saturated steam temperature the valve is closed as on a standard bimetallic steam trap, however, in this type any condensate build-up even at saturated steam temperature is discharged at the same rate. As it reaches the trap, the float becomes buoyant and opens the valve mechanically (see page 5).
- **Stainless Steel Float & Trim**
- **Simple Installation**
 Multiple inlet and outlet connections facilitate installation.
- **Integral strainer**
 Stainless steel screens are integral to protect the trap operating mechanism from damage by dirt or scale. No extra fittings or installation costs are required. Free strainer area minimum 5 to 1. Perforation is 0.031" (0.8 mm).
- **Integral check valve operation**
 The main valve acts as a check valve preventing back flow.
- **Stainless steel pivots**
 Assure adequate protection against wear.

CAGE UNIT



- **Seat (J) stellite faced** to increase resistance to the high degree of wear through velocity of flow, dirt and scale.
- **Guaranteed against water hammer.**
 The down-stream valve acts as a release valve on the excess water pressure without damage to internal parts.
- **Freezeproof installation**
 without insulation – complete drainage when cold.
- **Other options include:** NPT blow down plug, strainer blowdown valve and Piping King Units.

APPLICATIONS

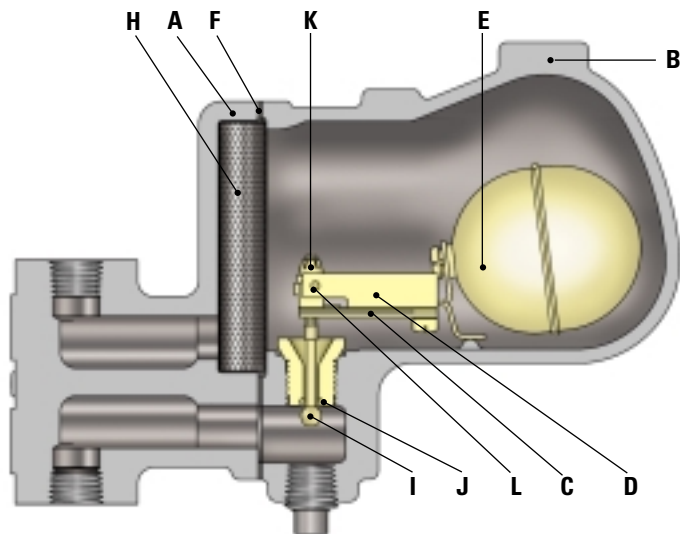
Where positive drainage is essential and condensate back-up cannot be tolerated.

- Unit Heaters, ● Laundry Presses, ● Calorifiers, ● Ironers, ● Calendars, ● Drying Cylinders and other applications where condensate has to be discharged at steam temperature.

VELAN MONOVALVE FLOAT BIMETALLIC STEAM TRAPS

CAPACITY

The performance graphs indicate the continuous discharge capacities of condensate per hour at various pressure differentials across the trap.



Type MFT5/MFTS

STANDARD MATERIALS

PART		MATERIALS	
		MFT0-5	MFTS
A	Body	Cast iron Gr. 220 ⁽¹⁾	Cast steel WCB
B	Cover	Same as body material	
C	Bimetal element	Truflex GB-14	
D	Bimetal holder	Stainless steel	
E	Float	Stainless steel	
F	Cover gasket	Stainless steel with non-asbestos filler	
G	Cover screw ⁽²⁾	High tensile steel Gr. S	
H	Strainer	Stainless steel	
I	Stem & ball	Stainless steel, ball 58 Rc	
J	Seat	SS hardfaced with Stellite 6	
K	Self-lock adjusting nut	Stainless steel	
L	Pivot Plug	Stainless steel	

(1) MFT0: Material is Cast Iron Gr. 250.

(2) MFTS: Material is B7.

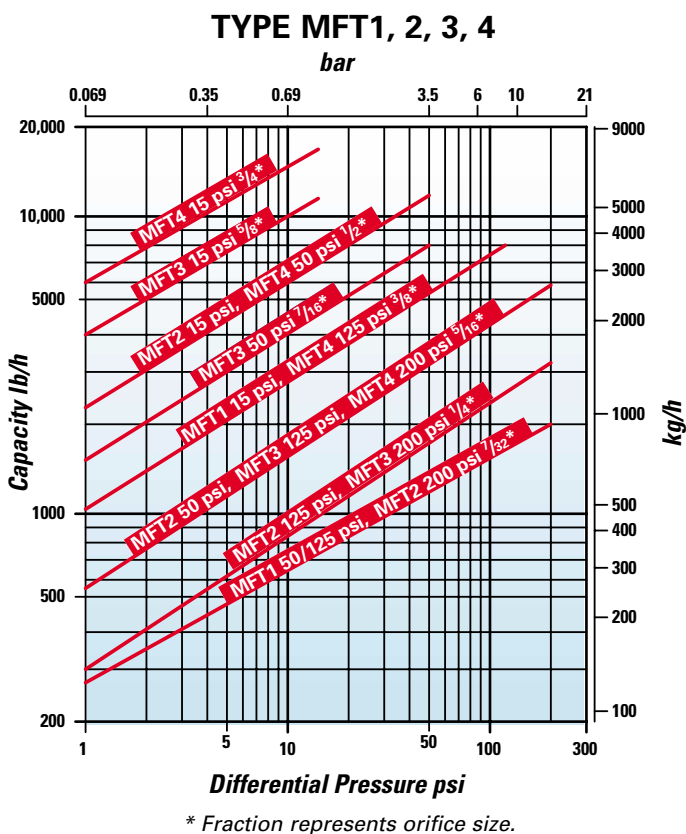
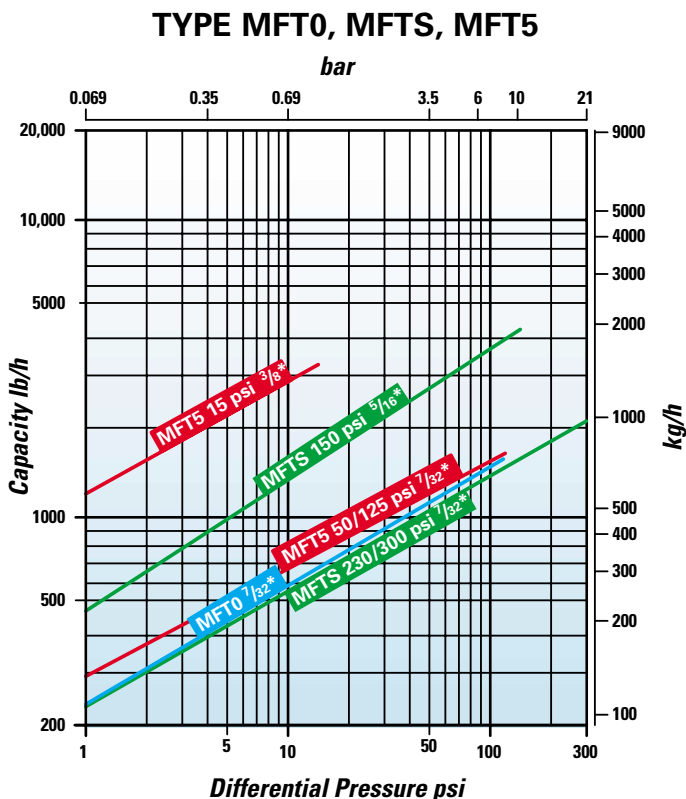
Note: Part "G" is not shown above for clarity.

CONNECTIONS:

MFT0-5: ● Screwed

MFTS: ● Screwed ● Socketweld

● Butt weld ● Flanged



* Fraction represents orifice size.

VELAN MONOVALVE FLOAT BIMETALLIC STEAM TRAPS

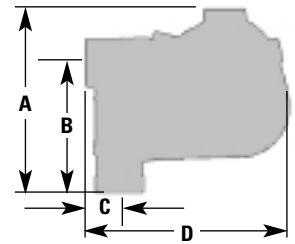
ENGINEERING DATA

TYPE	PRESSURE RANGE psi/bar	MATERIAL	MAX. TEMP. °F/°C	ORIFICE in/mm	MAX. CAPACITY lb/h kg/h
MFT0	0-125 0-8.5	Cast Iron Gr.250	428 220	7/32 5.5	1,650 750
MFT1	0-15 0-1	Cast Iron Gr.220	428 220	3/8 9.5	3,250 1,477
	0-50 0-3.5			7/32 5.5	1,250 568
MFT2	0-15 0-1	Cast Iron Gr.220	428 220	7/32 5.5	1,700 772
	0-50 0-3.5			1/2 12.7	7,000 3,182
MFT3	0-125 0-8.5	Cast Iron Gr.220	428 220	5/16 8	3,200 1,455
	0-200 0-14			1/4 6.4	2,600 1,182
MFT4	0-15 0-1	Cast Iron Gr.220	428 220	7/32 5.5	2,000 909
	0-50 0-3.5			3/4 19	17,500 7,955
MFT5	0-15 0-1	Cast Iron Gr.220	428 220	1/2 12.7	12,000 5,455
	0-50 0-3.5			3/8 9.5	8,000 3,636
MFTS	0-125 0-8.5	Cast Carbon Steel WCB	650 343	5/16 8	4,200 1,909
	0-200 0-14			7/32 5.5	1,700 772
MFTS	0-15 0-1	Cast Carbon Steel WCB	650 343	7/32 5.5	1,900 863
	0-50 0-3.5			7/32 5.5	2,100 955

Type MFT0



MFT0, Screwed connection only.



DIMENSIONS & WEIGHTS

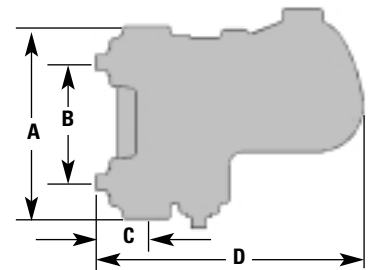
TYPE	SIZE in/mm	A Height	B ⁽¹⁾ Center to Face	C ⁽²⁾ Center to Face	D Length	Weight lb/kg
MFT0	1/2 3/4	6 1/8	4 3/8	1 1/8	6 3/4	8.75
	15 20	156	111	29	171	4

(1) Center of inlet to outlet face. (2) Center of outlet to inlet face.

Type MFT1, 2, 3, & 4



MFT1-4, Screwed connection only.



DIMENSIONS & WEIGHTS

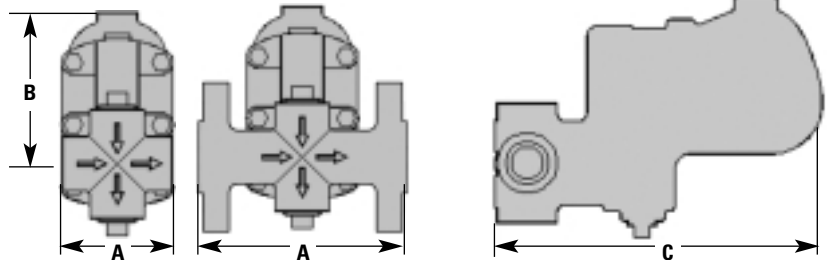
TYPE	SIZE in/mm	A ⁽¹⁾ Face to Face	B ⁽²⁾ Center to Center	C ⁽³⁾ Center to Face	D Length	Weight lb/kg
MFT1	1/2 3/4 1	6 5/8	3 15/16	1 3/8	8 5/16	12
	15 20 25	168	100	35	211	5.5
MFT2	3/4 1	7 11/16	4 3/4	1 7/16	9 3/8	15
	20 25	195	121	37	238	7
MFT3	1 1/4 1 1/2	8	4 1/2	1 3/4	10 3/8	17
	32 40	203	114	44	264	8
MFT4	1 1/2 40	9	5 1/2	1 3/4	12 3/4	33
	2 50	229	140	44	324	15
MFT5	2 50	10 1/4	5 5/8	2 1/4	13 1/2	35
	50	260	143	57	343	16
MFTS	2 50	11	6 1/2	2 1/4	14 1/2	51
	50	279	165	57	368	23

(1) Vertical connection. (2) Horizontal connection. (3) Center of vertical outlet to face of horizontal outlet.

MFT5: Screwed connection only.

MFTS:
Screwed Socketweld
Buttweld & Flanged connections.

Type MFTS, MFT5



DIMENSIONS & WEIGHTS

TYPE	SIZE in/mm	A Face to Face			B Center to Top	C Length	Weight lb/kg		
		SCR/SW	BW	FLG			SCR/SW	BW	FLG
MFT5	1/2 3/4 1	3 11/16	N/A	N/A	5 1/4	9 1/4	12	N/A	N/A
	15 20 25	94	N/A	N/A	133	235	5.5	N/A	N/A
MFTS	1/2 3/4 1	3 11/16	9 1/16	6	5 1/4	9 1/4	18	20	30
	15 20 25	94	246	152	133	235	8	9	14

