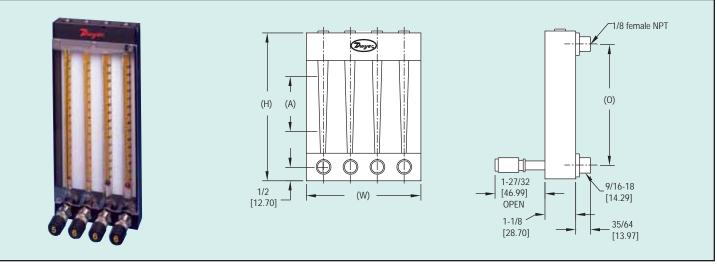


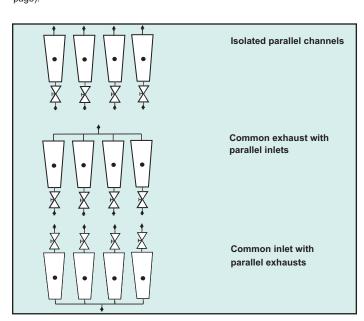
Multitube Flow Systems Customize to Fit Application, 65 mm or 150 mm Variable Area Flow Tubes



Customize flow systems to meet application requirements. Systems can be configured with up to six different flow tubes with various flow capacities and flow patterns. The Series MTF Multitube Flow Systems are ideal for multichannel metering, mixing, or monitoring applications.

To customize your flow system:

- 1) Determine the flow pattern required for the application (see below).
- 2) Select a 65 mm or 150 mm frame (next page), along with the appropriate number of tubes required, flow pattern, and wetted parts. Choose a 150 mm Gas Proportioner Frame (Series MTP) to blend 2 or 3 gases at required concentrations. Gas proportioner frames are typically used at 50 psi.
- 3) Choose the appropriate 65 mm or 150 mm correlated flow tubes (next page), for air or water.
- 4) Select a valve cartridge if desired that matches the range of the flow tube (next



Dimensions

DIM "A" Scale		DIM "O"	DIM "W"					
Length	ח ואווע			2 tubes	3 tubes	4 tubes	5 tubes	6 tubes
65 mm	5-1/2	4-1/2	1-1/4	2-1/4	3-1/4	4-1/4	5-1/4	6-1/4
	[139.70]	[114.30]	[31.75]	[57.15]	[82.55]	[107.95]	[133.35]	[158.75]
150 mm	9-13/16	8-13/16	1-1/4	2-1/4	3-1/4	4-1/4	5-1/4	6-1/4
	[249.25]	[223.85]	[31.75]	[57.15]	[82.55]	[107.95]	[133.35]	[158.75]

SPECIFICATIONS

Scales: Universal 65 mm or 150 mm scales with correlation charts. Accuracy: ±2% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute).

Repeatability: ±0.25% of scale reading.

Turn-down Ratio: 10:1, 20:1 with combinations of two floats installed in meter.

Maximum Operating Pressure: 200 psig (13.8 bar). Maximum Operating Temperature: 250°F (121°C).

Mounting: Vertical.

Connection: 1/8" female NPT. Flowtube: Borosilicate glass.

Float: 316 SS or black glass as indicated.

Float Stops: PTFE.

End Fittings: Anodized Aluminum or 316 SS.

Front Shield: Polycarbonate.

Side Panels: Black, anodized aluminum.

O-rings: Buna-N on aluminum models and Fluoroelastomer on stainless steel

models

65 mm Frames

Model	Pattern	Tube Capacity	Wetted Parts
MTF-1621	Isolated	2	Aluminum
MTF-2621	Isolated	2	316 SS
MTF-1622	Common	2	Aluminum
MTF-2622	Common	2	316 SS
MTF-1631	Isolated	3	Aluminum
MTF-2631	Isolated	3	316 SS
MTF-1632	Common	3	Aluminum
MTF-2632	Common	3	316 SS
MTF-1641	Isolated	4	Aluminum
MTF-2641	Isolated	4	316 SS
MTF-1642	Common	4	Aluminum
MTF-2642	Common	4	316 SS
MTF-1651	Isolated	5	Aluminum
MTF-2651	Isolated	5	316 SS
MTF-1652	Common	5	Aluminum
MTF-2652	Common	5	316 SS
MTF-1661	Isolated	6	Aluminum
MTF-2661	Isolated	6	316 SS
MTF-1662	Common	6	Aluminum
MTF-2662	Common	6	316 SS

^{*}Flow rates are given for standard pressure and temperature 70°F (21°C) @ 760 mm Hg.

65 mm Direct Reading Flow Tubes

Model	Max. Flow Rate Air	Float
FT-741	.60 SCFM	Carboloy
FT-743	2.2 SCFH	Glass
FT-746	6.0 SCFH	Glass
FT-748	10.0 SCFH	316 SS
FT-750	18.0 SCFH	316 SS
FT-752	25.0 SCFH	316 SS
FT-753	50.0 SCFH	316 SS
FT-754	90.0 SCFH	316 SS

65 mm Correlated Flow Tubes

	Max. Flow Rate (mL/min)*		
Model	Air	Water	Float
FT-61	6	0.07	Glass
FT-62	17	0.28	316 SS
FT-63	49	0.55	Glass
FT-64	145	2.38	316 SS
FT-67	202	2.60	Glass
FT-68	522	12.0	316 SS
FT-611	1249	27	Glass
FT-612	2520	71	316 SS
FT-613	2040	40	Glass
FT-614	3990	108	316 SS
FT-617	6318	147	Glass
FT-618	12058	364	316 SS
FT-621	23169	522	Glass
FT-622	42094	1261	316 SS

150 mm Frames

Model	Pattern	Tube Capacity	Wetted Parts
MTF-1121	Isolated	2	Aluminum
MTF-2121	Isolated	2	316 SS
MTF-1122	Common	2	Aluminum
MTF-2122	Common	2	316 SS
MTF-1131	Isolated	3	Aluminum
MTF-2131	Isolated	3	316 SS
MTF-1132	Common	3	Aluminum
MTF-2132	Common	3	316 SS
MTF-1141	Isolated	4	Aluminum
MTF-2141	Isolated	4	316 SS
MTF-1142	Common	4	Aluminum
MTF-2142	Common	4	316 SS
MTF-1151	Isolated	5	Aluminum
MTF-2151	Isolated	5	316 SS
MTF-1152	Common	5	Aluminum
MTF-2152	Common	5	316 SS
MTF-1161	Isolated	6	Aluminum
MTF-2161	Isolated	6	316 SS
MTF-1162	Common	6	Aluminum
MTF-2162	Common	6	316 SS

150 mm Gas Proportioner Frames

Model	Tube Capacity	Wetted Parts			
MTP-112	2	Aluminum			
MTP-212	2	316 SS			
MTP-113	3	Aluminum			
MTP-213	3	316 SS			

Valve Cartridges

For metering or mixing applications, complete your multitube flow system by selecting a valve cartridge suitable for the flow range. Choose a standard 6-turn valve or high precision 16-turn valve.

SPECIFICATIONS

Wetted Parts 6-turn Valves: For Aluminum frames: Aluminum body, 316 SS spindle, Acetal orifice, Buna-N O-rings; for 316 SS frames: 316 SS body, 316 SS spindle, PCTFE orifice, Fluoroelastomer O-rings.

Wetted Parts 16-turn Valves: For Aluminum frames: Brass body, 316 SS spindle, PCTFE orifice, Buna-N O-rings; for 316 SS frames: 316 SS body, 316 SS spindle, PCTFE orifice, Fluoroelastomer O-rings.

150 mm Direct Reading Flow Tubes

- 6			
	Model	Max. Flow Rate Air	Float
	FT-242	1.50 SCFM	316 SS
	FT-244	2.50 SCFH	Carboloy
	FT-245	5.00 SCFH	Glass
	FT-247	8.25 SCFH	Glass
	FT-248	10.0 SCFH	316 SS
	FT-249	16.5 SCFH	316 SS
	FT-251	23.0 SCFH	Carboloy
	FT-253	50.0 SCFH	Glass
	FT-254	90.0 SCFH	316 SS
	FT-255	94.0 SCFH	316 SS

150 mm Correlated Flow Tubes

130 IIIII Correlated Flow Tubes					
	Max. Flow Rate (mL/min)*				
Model	Air	Water	Float		
FT-123	19	0.19	Glass		
FT-124	61	0.94	316 SS		
FT-125	49	0.53	Glass		
FT-126	137	2.45	316 SS		
FT-127	92	0.90	Glass		
FT-128	264	4.70	316 SS		
FT-129	374	5.50	Glass		
FT-130	814	20.4	316 SS		
FT-133	2313	54	Glass		
FT-134	4562	130	316 SS		
FT-137	8678	210	Glass		
FT-138	16737	506	316 SS		
FT-139	22536	541	Glass		

Model Stan	Model Standard Valve 6-turn				
Aluminum SS Flow Rate (Air) Flow Rate (H ₂ C			Flow Rate (H ₂ O)		
		mL/min	mL/min		
FV-11	FV-21	0 to 5000	0 to 125		
FV-12	FV-22	5001 to 10000	126 to 325		
FV-13	FV-23	10001 and above	326 and above		

Model High	Model High Precision Valve 16-turn				
Aluminum	SS	S Flow Rate (Air) Flow Rate (H ₂ O)			
		mL/min	mL/min		
FVH-11	VA81	0 to 200	0 to 6		
FVH-12	VA82	201 to 400	7 to 12		
FVH-13	VA83	401 to 1000	13 to 26		
FVH-14	VA84	1001 to 2500	27 to 80		
FVH-15	VA85	2501 to 6200	81 to 200		
FVH-16	VA86	6201 and above	201 and above		