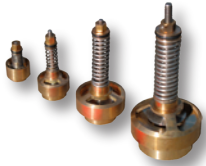


HVAC Products



Tri Flo Tech LLC
Los Angeles, California



Automatic balancing valves
2.5" thru 108.0" in Brass,
Stainless, PVC, CPVC, Titanium,
Ceramic, Monel, and more

TRI A FLO
Automatic Cartridges

PAGE 2



Y-Body Strainer, 1/2" - 2" in
brass 2.5"-8" in carbon-steel

TRI Y FLO
Strainer

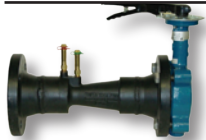
PAGE 3



Accessory union
1/2" - 2" in brass

TRI U FLO
Accessory Union

PAGE 4



Manual Balancing Venturi
2.5" - 12.0"

CB Series
Butterfly/Venturi

PAGE 5



Carbon Steel, ASTM 126
2.5" - 12.0"

FT Series
Venturi

PAGE 6



Averaging Type through 126.0",
Hot Tap, Insertion, Double
Mount, High Pressure, All
Materials.

TRI P FLO

PAGE 7



Manual Balancing
0.5" - 2.0"

TRI M FLO
Miniloss Venturi

PAGE 8



Manual Balancing
0.5" - 2.0"

TRI B FLO
Union Ball Valve

PAGE 9



2.5" - 62.0"

TRI W FLO Wafer

PAGE 10

Technical
Drawings

PAGES 11-12

Tri Flo Tech LLC. Has been a manufacturer of primary flow elements since 1984. Currently Tri Flo Tech manufactures, designs, inspects and out sources 620 different flow elements.

Tri Flo Tech's products are used in the Nuclear, Wastewater, HVAC, Chemical, Pharmaceutical, Space, and Hydronic industries. We have served clients such as Korea Power Company, Plant Vogtle Nuclear Power plant, GA, Comanche Peak Nuclear power plant Texas, South Texas power plant by TU Electric, U.S. Dept. of Energy, NASA Space Center, Bettis Atomic Lab, and General Electric Pusan Nuclear Power units 1 thru 8.

Our engineering Department is capable of designing, troubleshooting, and enhancing economical and efficient flow meter packages to meet your specifications.

We stock Venturi tubes, Orifice plates and flanges, Restriction Orifice unions, and Pitot tubes ready for same-day delivery.

At Tri Flo Tech, quality control is not just a department, it is a core value. We manufacture and design our products per ASME, ANSI B31.1 and B31.3, ISO 5167, and Fluid Meters 6th Ed. Highly qualified ASME Pressure Vessel code. Certified welders are available.

3410 East 14th Street
Los Angeles, CA 90023

Main Phone: (323) 269-7700
Main Fax: (323) 269-7707

Sales E-mail: sales@triflotech.com
Engineering E-mail: triflo@flash.net

www.triflotech.com



Tri Flo Tech LLC

Los Angeles, California

3410 E 14th St. • LA, CA 90023 • (323) 269-7700 • www.triflo.tech

TRI A FLO

TRI AUTO FLO ; MECHANICAL SPECIFICATION AND ORDERING FORM;
Tri Auto Flo is a combination isolation Valve, Union, Pressure and Temperature port which is equipped with a TriAutoFlo cartridge, which is capable of maintaining the flow within +/- 5% of actual flow rate between 2-50 PSID differential pressure across the cartridge. The Tri Flo forged brass body insures multiple taps, reliable leak free performance and additional accessories to accomodate variable piping configurations. Tri Flo Tech is capable of manufacturing the cartridges to maintain the flow to decimal increments such as 1.1 G.P.M., 1.2 G.P.M. thru 1.9 in all flow rates. Please Remove the cartridges from line when flushing the system.



TRI AUTO FLO

Pressure/ Temperature Ratings:

1/2" - 2": 600 PSI WOG Non - Shock

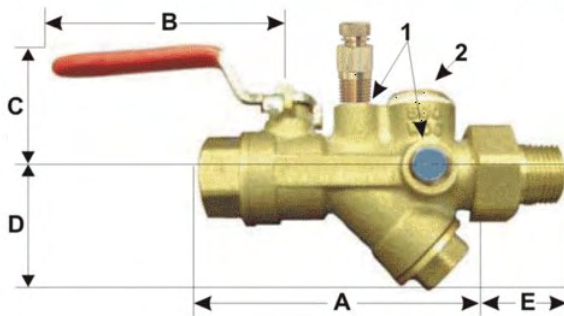
All Sizes: 325 Deg. F. Maximum

Optional Accessories:

- Air Vent

- PT/Port Accessory/Extension - Flex Hoses

Dimensional Information & Material Specifications:



Model #	Size	A	B	C	D	E	Cv*
TA-AF_	1/2"	3.80	3.40	1.70	1.60	1.00	5.50
TA-BF_	3/4"	5.20	3.40	1.80	2.40	1.00	9.00
TA-CF_	1"	5.30	3.40	1.80	2.40	1.20	9.00
TA-DF_	1-1/4"	6.60	4.40	2.50	3.50	1.70	28.00
TA-EF_	1-1/2"	6.60	4.40	2.50	3.50	1.90	28.00
TA-FF_	2"	11.30	5.50	3.50	4.50	1.90	32.00

Note: Cv's are based on valve body without cartridge.

Model shown is FxM consult factory for dimension per configuration.

Connection Availability:

Body End:	Female NPT	1/2" thru 2"
	Copper SWT	1/2" thru 2"
Tailpiece End:	Female NPT	1/2" thru 2"
	Male NPT	1/2" thru 2"
	Copper SWT	1/2" thru 2"
Tailpiece End	Female NPT	3/4" thru 2"
W/One Size	Male NPT	3/4" thru 2"
Reduction:	Copper SWT	1/2" thru 2"

Valve Body & Union Nut:	Forged Brass
Ball:	Chrome Plated/Forged Brass
Stem & Gland Nut:	Forged Brass
Tailpiece:	Forged Brass
Readout Port Body & Cap:	Extruded Brass
Readout Port Seal:	Nordel
Lever Handle:	Zinc Plated Steel w/Vinyl Grip
Lever Nut:	Extruded Brass
Seats & Packing:	PTFE
Stem O-Rings:	Viton

Option Ports:

#1 FNPT Option Port: (1)	1/2" thru 2"	1/4" port
on top and (1) on each		
side:	1/2" thru 1"	1/2" port
	1-1/4" thru 2"	

Cartridge Sizes	Flow Rate in GPM
1/2" LOW	0.25 - 3 *
1/2" HIGH	3.50 - 10 *
3/4" LOW	0.25 - 8 *
3/4" HIGH / 1"	8.10 - 17 *
1 1/4" / 1 1/2"	1.00 - 80 *
2"	26.00 - 126 *

* all cartridges sold in 0.1" increments

Automatic flow control cartridges can also be batch manufactured and custom crafted from a variety of different materials such as Monel, Hastelloy "C", Tantalum, Titanium, PVC, Kynar and others to enhance corrosive sensitive applications. Consult the factory today for more information about special materials required for your project.

Ordering Instructions

Model TAF - 075 S - 050 M - XX - XX - XX

Ball End 1/2" = 050, 3/4" = 075, 1" = 100, 1 1/4" = 125, 1 1/2" = 150, 2" = 200
F = Female & S = Sweet

Union End 1/2" = 050, 3/4" = 075, 1" = 100, 1 1/4" = 125, 1 1/2" = 150, 2" = 200
F = Female, M = Male & S = Sweet

Port Accessories PT, BD, SH, MV

Flow Rate in G.P.M. See Accessories

Project Information:

Contractor _____ Representative _____

Engineer _____ Job # _____

P.O.# _____ Date _____

Delivery _____ F.O.B. _____

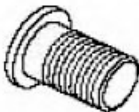
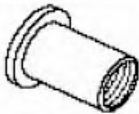


**Combination Ball Valve, Y-Strainer & Tee
With Union End 600 WOG**

Y Series Materials:

Brass Body, End Piece, and Strainer Cap, Chrome Plated Brass Ball with Teflon Seals, Dual Viton O-Ring Seals on Ball Stem, Union, and End Cap, Zinc Plated Handle with Vinyl Cover, 20 Mesh 304 S.S. Filter Screen complete with Teflon packing in the stem and the fixes end joint.

Nominal Line Size	Tail Piece Sizing Info	B		D	E	F	Ball I.D.	Filter Area (sq. inch)	Cv	WT (lbs)
		S SWT	F FPT							
½		4.3	3.8	1.7	1.6	3.4	0.6	2.7	5.5	1.1
¾		5.4	5.2	1.8	2.4	3.4	0.8	7.4	9.0	2.1
1"		5.6	5.3	1.8	2.4	3.4	0.8	7.4	9.0	2.1
1¼"		7.1	6.6	2.5	3.5	4.4	1.3	16.7	28.0	4.1
1½"		7.2	6.6	2.5	3.5	4.4	1.3	16.7	28.0	4.2
2"		8.4	8.26	3.5	4.5	5.5	1.8	20.6	36	8.9

Tail Piece Options		Size	Length	Acceptable Valve Size
Male NPT		½"	1.0	½", ¾", 1"
		¾": 1"	1.0 1.2	¾", 1"
		½", ¾" 1", 1¼", 1½"	1.7 1.9	1¼", 1½"
Female NPT		½", ¾" 1"	1.0 1.2	¾", 1"
		1", 1¼" 1½"	1.7 1.2	1¼", 1½"
Female Sweat		¾"	0.5	½"
		½"	0.6	½", ¾", 1"
		¾" 1"	0.9 1.0	¾", 1"
		¾" 1", 1¼", 1½"	1.7 1.9	1¼", 1½"

Model _____ TYF - 075 S - 050 M - XX - XX - XX

Ball End _____

$\frac{1}{2}" = 050, \frac{3}{4}" = 075, 1" = 100, 1\frac{1}{4}" = 125, 1\frac{1}{2}" = 125, 1\frac{3}{4}" = 150$
F = Female & S for Sweat

Union End _____

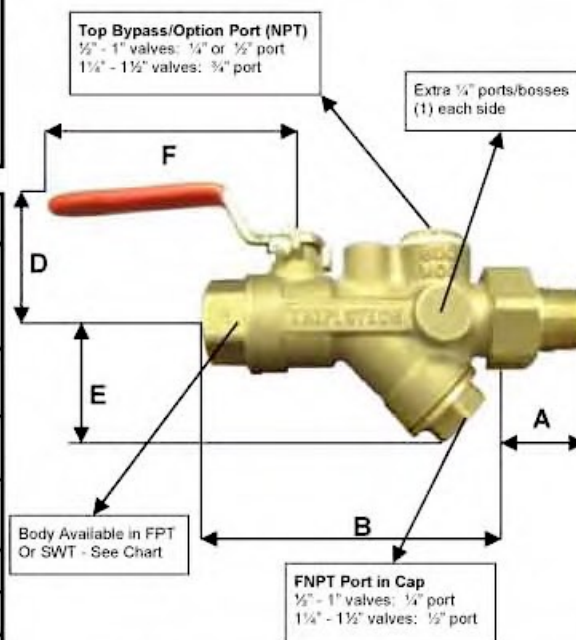
$\frac{1}{2}" = 050, \frac{3}{4}" = 075, 1" = 100, 1\frac{1}{4}" = 125, 1\frac{1}{2}" = 125, 1\frac{3}{4}" = 150$
F = Female, M = Male & S = Sweat

Port Accessories _____

PT, BD, SH, MV

Additional Option _____

See Accessories



PT - Pressure/Temp Plug
350°F, 1000PSIG, w/ Nordel Core, 1/4" MPT

SH - Pressure Only Tap
220°F, 250 PSIG, positive shut off, 1/4" MPT

MV - Manual Air Vent
325°F, 400 PSIG, ¼" MPT, Side Discharge

BD - Blow Down/Vent/Drain
325°F, 600 PSIG, ¾" hose bib & cap
¾" MPT



Design Data

Design Information:

Hot Forged Brass Body
Blowout-Proof Ball Stems
Double Viton O-Ring Stem Seals
Removable Strainer Screen
Interchangeable Union Tail Pieces
Viton O-Ring Seals rated at 600 WOG, 325°F

PROJECT INFORMATION

Representative _____

Contractor _____

Engineer _____

PO/Job # _____

Project _____

Date _____



SPECIFICATION INFORMATION

Contractor _____
Job # / PO # _____
Linear Spec # _____
Engineer _____
Project _____
Representative / Territory _____

DIMENSIONS (Inches)

Nominal Line Size	Tail Piece Sizing Info	F		F MPT	E	Cv	Weight (Lbs.)
		S SWT	F FPT				
½"		2.1	1.9	2.5	1.6	5.5	0.4
¾"		2.1	2.0	2.6	1.7	9.0	0.5
1"		2.4	2.1	2.6	1.9	9.0	0.6
1 ¼"		2.9	2.4	2.9	2.4	28.0	0.8
1 ½"		3.0	2.6	3.0	2.5	28.0	1.0
2"		3.1	2.7	3.4	2.9	28.0	1.2

Tail Piece Options	Size	Length	Acceptable Valve Size
Male NPT	½"	1.0"	½", ¾", 1"
	¾"	1.0"	¾", 1"
	1"	1.2"	¾", 1"
Female NPT	½", ¾", 1", 1 ¼", 1 ½", 2"	1.7" 1.9"	1 ¼", 1 ½"
	½", ¾", 1"	1.0" 1.2"	¾", 1"
	1", 1 ¼", 1 ½", 2"	1.7" 1.2"	1 ¼", 1 ½"
Female Sweat	¾"	0.5"	½"
	½"	0.6"	½", ¾", 1"
	¾"	0.9"	¾", 1"
	1"	1.0"	¾", 1"
	¾", 1", 1 ¼", 1 ½", 2"	1.7" 1.9"	1 ¼", 1 ½"

TRI FLO ACCESSORIES

PT - Pressure /Temp Plug
350°F, 1000 PSIG, w/ Nordel Core, ¼" MPT

SH - Pressure Only Tap
220°F, 250 PSIG, Positive Shut Off, ¼" MPT

MV - Manual Air Vent
325°F, 400 PSIG, Side Discharge, ¼" MPT

BDVD - Blow Down /Vent /Drain
325°F, 600 PSIG, ¾" Hose Bib & Cap, ¼" MPT

MATERIALS & DESIGN DATA

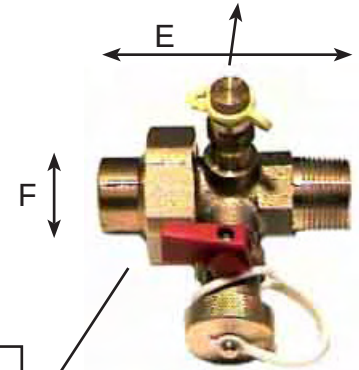
Tri U Flo Series Materials:

Brass Body, End Tail Piece, and Union
Rated @ 600 PSIG and 260°F
With O-Ring Buna Seal on Union
Available in Female, Male and Sweat

Design Information:

Hot Forged Brass Body
Blowout Proof Ball Stems
Double O-Ring Stem Seals
Removable Strainer Screen
Interchangeable Union Tail Pieces
O-Ring Seals Rated at 600 WOG, 325°F

3 Ea. X ¼" Ports-Bosses
(1) Ea. Top, Bottom, Side



Body Available in
M/FPT Or SWT - See
chart

FNPT Port in Drain
½"-2" Valves; ¼" Port

ORDERING FORMULA

TUF - S - 075 - M - 050 - XX - XX - XX
1 2 3 4 5 6 7 8

1: Model

TUF - Tri U flo

2: Union End

F - Female

S - Sweat

3: Union End Size

½" - 050

¾" - 075...

1 ½" - 150

2" - 200

4: Fixed End

M- Male

F - Female

S - Sweat

5: Fixed End Size

½" - 050

¾" - 075...

1 ½" - 150

2" - 200

6: Port Options

PT, POT, MAV, or VDBD

7: Port Options

PT, POT, MAV, or VDBD

8: Additional Options (see accessories)



SPECIFICATION INFORMATION

Contractor _____

Job # / PO # _____

Linear Spec # _____

Engineer _____

Project _____

Representative / Territory _____

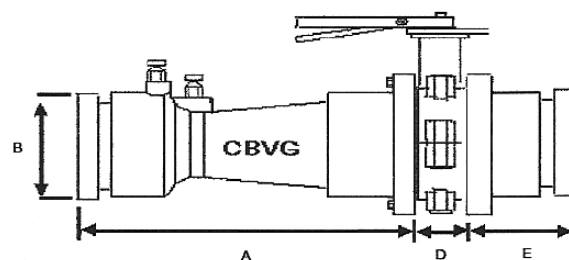
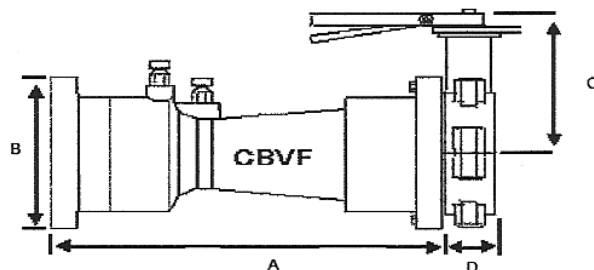
INSTALLATION NOTES

- Standard Class 150 Flange Grooved on Weld End
- Can Be Mounted Horizontally or Vertically
- Can Be Rotated 180° In Line
- Requires a Minimum of 5 pipe Diameters Upstream

DIMENSIONS (Inches)

Size	Model	A ¹	A ²	B	C	D	E	Weight
2 ½"	CBVF	10.75	26	7	7.2	1.8	N/A	36 lbs.
2 ½"	CBVG	8	23.25	2.88	7.2	1.8	1.63	36 lbs.
3"	CBVF	11.13	28.75	7.5	7.6	2	N/A	42 lbs.
3"	CBVG	8.28	26	3.5	7.6	2	1.63	44 lbs.
4"	CBVF	12.25	35.25	9	8.4	2	N/A	70 lbs.
4"	CBVG	9.22	32.25	4.5	8.4	2	2	72 lbs.
5"	CBVF	13.25	41.75	10	9	2	N/A	86 lbs.
5"	CBVG	9.75	38.25	5.56	9	2.25	2	89 lbs.
6"	CBVF	14.75	48.25	11	9.7	2.25	N/A	108 lbs.
6"	CBVG	11.25	44.75	6.63	9.7	2.25	2	110 lbs.
8"	CBVF	16.75	N/A	13.5	11.25	2.25	N/A	170 lbs.
8"	CBVG	12.6	N/A	8.63	11.25	2.5	2.5	171 lbs.
10"	CBVF	20.37	N/A	16	N/A	3	N/A	226 lbs.
10"	CBVG	16.3	N/A	10.75	N/A	3	2.75	227 lbs.
12"	CBVF	21.5	N/A	19	N/A	3	N/A	348 lbs.
12"	CBVG	17	N/A	12.75	N/A	3	3	350 lbs.

* A² Incorporates 5 pipe extension



TRI FLO ACCESSORIES

MV - Manual Air Vent

DV - Drain Valve
2 ½" Ball Valve

TG - Attached Metal Tag

PD - 5 Pipe Diameter Extension

EX - PT Extension

MATERIALS & MFG DATA

Body:

- Carbon Steel, ASTM 126
- 225 PSIG (Water Temp. @ 225° F)
- Venturi Section is Machined from Carbon Steel
- Accuracy
 - ±1% Between 5"-10" WCDP
 - ±½% Between 10"-110" WCDP
 - ±1% Between 110"-150" WCDP
- Pressure / Temperature Valves are Standard
- Flange - Standard Flange Class 150 - Supplied with mating bolt kit.

Butterfly Valve:

- Lug Type, Cast Iron Body, API 609
- 150 PSIG (Water Temp. @ 225° F)
- Rated for Dead-End Service
- Buna Seat, Stainless Trim, Infinite Position
- Memory Stop w/ Dial Indicator

PERMANENT PRESSURE LOSS 6 % OF DIFFERENTIAL PRESSURE

ORDERING FORMULA

CB-XX - 250 - ## ## ## ##

1 2 3

1: Model

CBVF - Flange X Flange
CBVG - Groove X Flange

2: Size

250 - 2 ½" 600 - 6"
300 - 3" 800 - 8"
400 - 4" 010 - 10"
500 - 5" 012 - 12"

3: Accessories / Options

(see ACCESSORIES above)



SPECIFICATION INFORMATION

Contractor _____
 Job # / PO # _____
 Linear Spec # _____
 Engineer _____
 Project _____
 Representative / Territory _____

MATERIALS & MFG DATA

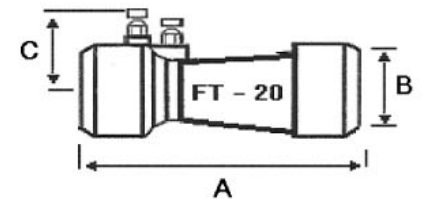
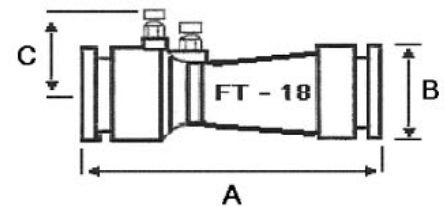
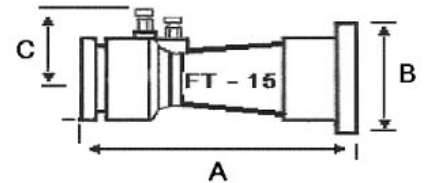
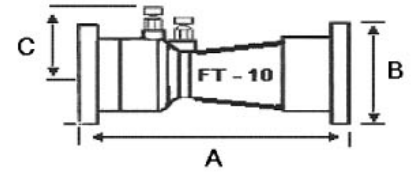
Body:

- Carbon Steel, ASTM 126
- 225 PSIG (Water Temp. @ 225° F)
- Venturi Section is Machined from Carbon Steel
- Accuracy
 - ±1% Between 5"-10" WCDP
 - ±½% Between 10"-110" WCDP
 - ±1% Between 110"-150" WCDP
- Pressure / Temperature Valves are Standard
- Flange - Standard Flange Class 150

PERMANENT PRESSURE LOSS 6 % OF DIFFERENTIAL PRESSURE

INSTALLATION NOTES

- Standard Class 150 Flange Grooved on Weld End
- Can Be Mounted Horizontally or Vertically
- Can Be Rotated 180° In Line
- Requires a Minimum of 5 pipe Diameters Upstream



DIMENSIONS (Inches)

Size	Model	A ¹	A ²	B	C	Weight
2 ½"	FT-10	10.75	26	7	3.5	18 lbs.
2 ½"	FT-15	8	23.25	2.88 / 7	2.6 / 3.5	10 lbs.
2 ½"	FT-18/20	5.2	20.50	2.88	2.6	2 lbs.
3"	FT-10	11.13	28.75	7.5	3.75	21 lbs.
3"	FT-15	8.28	26	3.5 / 7.5	3 / 3.75	14 lbs.
3"	FT-18/20	5.53	23.25	3.5	3	3 lbs.
4"	FT-10	12.25	35.25	9	4.5	36 lbs.
4"	FT-15	9.22	32.25	4.5 / 9	3.5 / 4.5	21 lbs.
4"	FT-18/20	6.22	29.25	4.5	3.5	6 lbs.
5"	FT-10	13.25	41.75	10	5	47 lbs.
5"	FT-15	9.75	38.25	5.56 / 10	4.03 / 5	28 lbs.
5"	FT-18/20	6.25	34.75	5.56	4.03	9 lbs.
6"	FT-10	14.75	48.25	11	5.5	62 lbs.
6"	FT-15	11.25	44.75	6.63 / 11	4.56 / 5.5	36 lbs.
6"	FT-18/20	7.73	41.25	6.63	4.56	11 lbs.
8"	FT-10	16.75	N/A N/A	13.5	6.75	98 lbs.
8"	FT-15	12.6	N/A N/A	8.63 / 13.5	5.56 / 6.75	59 lbs.
8"	FT-18/20	8.6	N/A	8.63	5.56	20 lbs.
10"	FT-10	20.37	N/A N/A	16	8	134 lbs.
10"	FT-15	16.3	N/A N/A	10.75 / 16	6.63 / 8	82 lbs.
10"	FT-18/20	12.3	N/A	10.75	6.63	30 lbs.
12"	FT-10	21.5	N/A N/A	19	9.5	198 lbs.
12"	FT-15	17	N/A N/A	12.75 / 19	7.63 / 9.5	116 lbs.
12"	FT-18/20	12.4	N/A	12.75	7.63	36 lbs.

* A² Incorporates 5 pipe extension

TRI FLO ACCESSORIES

MV - Manual Air Vent

DV - Drain Valve
2 ½" Ball Valve

TG - Attached Metal Tag

PD - 5 Pipe Diameter Extension

EX - PT Extension

ORDERING FORMULA

FT-XX - 250 - ## ## ## ##
 1 2 3

1: Model

FT-10 - Flange X Flange
 FT-15 - Groove X Flange
 FT-18 - Groove X Groove
 FT-20 - Weld X Weld

2: Size

250 - 2 ½" 600 - 6"
 300 - 3" 800 - 8"
 400 - 4" 010 - 10"
 500 - 5" 012 - 12"

3: Accessories / Options (See above)



HVAC FLOW SENSOR Averaging Pitot Tube 1½" - 20"

Materials & Manufacturing Data

Tri-Flo Model 140-HVAC averaging pitot tubes are designed to sense the complete velocity profile within the stream by using multiple averaging ports to achieve better than $\pm 0.5\%$ accuracy (please refer to independent flow lab results).

The sensor can be mounted on pipe or thin wall duct using a thread-o-let. The 316SS sensor for ½" through 8" line size is ½" in diameter with a red handle which is used for the up-stream tap.

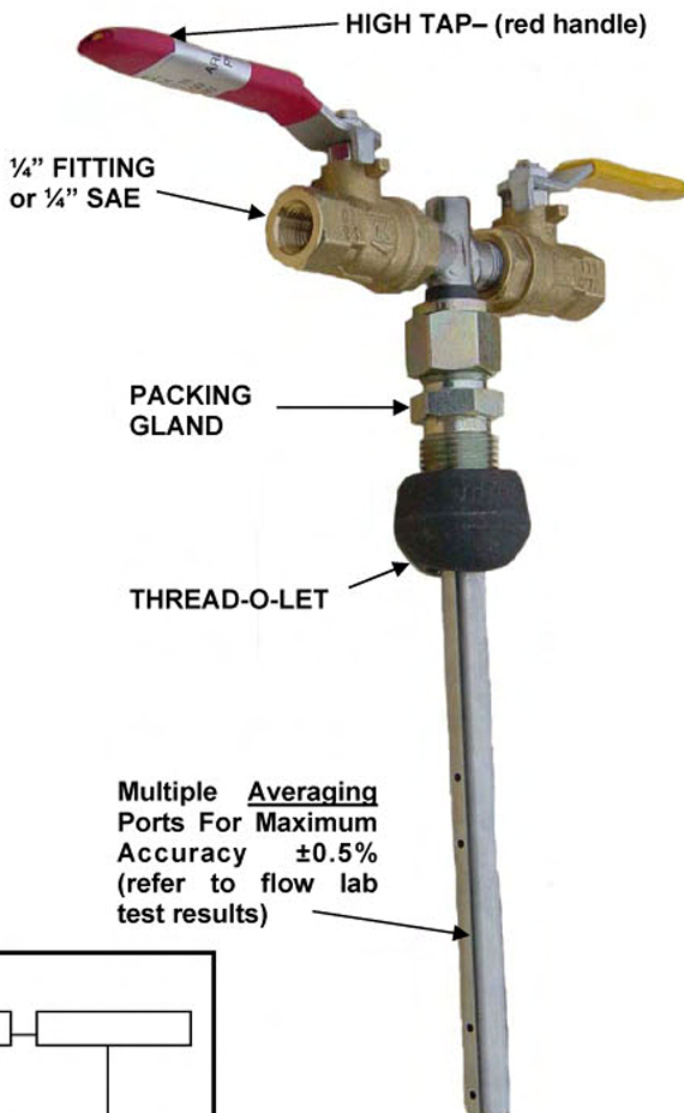
SPECIFICATIONS:

PRESSURE: DO NOT EXCEED 300 PSIG
TEMPREATURE: DO NOT EXCEED 300° F

(For high pressure, temperature, or hot tap units please refer to our line of Industrial Pitot Tubes)

Sensor Material : 316L S.S.
Packing Gland : ½" Carbon Steel
Thread-O-Let : ½" C.S. 3000# Std.
Double Mount : Carbon Steel 3000#
Sheet Metal Mount : Not rated; Low Pressure Only.
Instrument Valves : ¼" Bronze Ball standard with ¼" SAE fittings.

LINE SIZE	OVERALL LENGTH	LINE SIZE	OVERALL LENGTH
1½"	7½"	10"	16"
2"	8"	12"	18"
2½"	8¾"	14"	20"
3"	9"	16"	22"
3½"	9½"	18"	24"
4"	10"	20"	26"
5"	11"		
6"	12"		
8"	14"		



ORDERING INFORMATION FOR MODEL 140

Nominal Pipe Size	Pipe Schedule Or I.D. & Wall	Pipe Material	Instrument Valves	Other Options
CS = carbon steel		SS = stainless steel	BB4 = ¼" brass ball	ASH = all stainless hardware
CO = copper		AL = aluminum		SPP = static pressure point
CI = cast iron		PVC = pvc		AMH = additional mounting hardware
FG = fiberglass		XX = special (call)		NSF = rating of 300#, 600#, 900#, 1500# 2500#
				O = no options

PROJECT INFORMATION

Representative _____
Contractor _____
Engineer _____
PO/Job # _____
Project _____
Date _____



SPECIFICATION INFORMATION

Contractor _____
 Job # / PO # _____
 Linear Spec # _____
 Engineer _____
 Project _____
 Representative / Territory _____

MATERIALS DATA

Full Venturi with averaging Pizometer rings for maximum accuracy:
 Brass Body, End Piece, and Full Venturi, Chrome Plated Brass Ball with
 Teflon Seals. Dual Viton O-Ring Seals on Ball Stem, Union, and End
 Cap. Zinc Plated Handle with Vinyl Cover. 94% HEAD LOSS RECOVERY
 ACCURACY +/- 0.33%.

DIMENSIONS (Inches)

Nominal Line Size	Tail Piece Sizing Info	B		D	E	F	Ball I.D.	Cv	Weight (Lbs.)
		S SWT	F FPT						
1/2"		4.3	3.8	1.7	1.6	3.4	0.6	5.5	1.1
3/4"		5.4	5.2	1.8	2.4	3.4	0.6	9.0	2.1
1"		5.6	5.3	1.8	2.4	3.4	0.8	9.0	2.1
1 1/4"		7.1	6.6	2.5	3.5	4.4	0.8	28.0	4.1
1 1/2"		7.2	6.6	2.5	3.5	4.4	1.3	28.0	4.2
2"		6.5	6.2	2.75	2.0	5.5	1.7	32.0	

Tail Piece Options	Size	Length	Acceptable Valve Size
Male NPT	1/2"	1.0"	1/2", 3/4", 1"
	3/4"	1.0"	3/4", 1"
	1"	1.2"	3/4", 1"
	1/2", 3/4", 1", 1 1/4", 1 1/2"	1.7" 1.9"	1 1/4", 1 1/2"
Female NPT	1/2", 3/4", 1"	1.0" 1.2"	3/4", 1"
	1", 1 1/4", 1 1/2"	1.7" 1.2"	1 1/4", 1 1/2"
	3/4"	0.5"	1/2"
Female Sweat	1/2"	0.6"	1/2", 3/4", 1"
	3/4"	0.9"	3/4", 1"
	1"	1.0"	3/4", 1"
	3/4", 1", 1 1/4", 1 1/2"	1.7" 1.9"	1 1/4", 1 1/2"

ORDERING FORMULA

TMF - S - 075 - M - 050 - XX - XX - XX
 1 2 3 4 5 6 7 8

1: Model

TMF - Miniloss Venturi

2: Union End

F - Female
 S - Sweat

3: Union End Size

1/2" - 050
 3/4" - 075...
 2" - 200

4: Fixed End

M- Male
 F - Female
 S - Sweat

5: Fixed End Size

1/2" - 050
 3/4" - 075...
 2" - 200

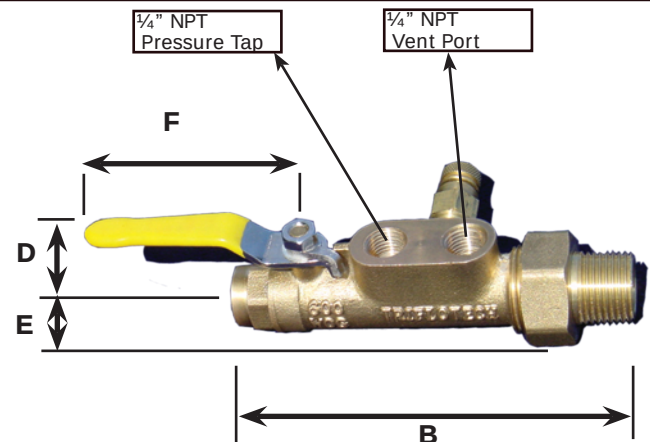
6: Port Options

PT, POT, MAV, or VDBD

7: Port Options

PT, POT, MAV, or VDBD

8: Additional Options (see accessories)



TRI FLO ACCESSORIES

PT - Pressure / Temp Plug

350°F, 1050 PSIG w/ Noreded Core, 1/4" NPT

POT - Pressure Only Tap

220°F, 250 PSIG, positive shut off, 1/4" NPT

MAV - Manual Air Vent

325°F, 400 PSIG, 1/4" NPT, Side Discharge

VDBD - Blow Down / Vent / Drain

325°F, 600 PSIG, 3/4" Hose Rib & Cap, 1/4" NPT

DESIGN DATA - REFERENCE UTAH STATE WATER LABORATORY REPORT

Reference Fluid Dynamics Water Laboratory Report

Independently Calibrated to: +/- 0.33% Accuracy
 Head 'Loss' Recovery: 94%
 Double O-Ring Stem Seals
 O-Ring Seals rating: 600 WOG, 325°F
 Interchangeable Union Tail Peices



SPECIFICATION INFORMATION

Contractor _____
 Job # / PO # _____
 Linear Spec # _____
 Engineer _____
 Project _____
 Representative / Territory _____

MATERIALS DATA

Full union ball valve with memory stop.
 Brass Body and End Piece, Chrome Plated Brass Ball with Teflon Seals. Dual Viton O-Ring Seals on Ball Stem, Union, and End Cap. Zinc Plated Handle with Vinyl Cover. Matches the Tri M Flo less the venturi insert.

DIMENSIONS (Inches)

Nominal Line Size	Tail Piece Sizing Info	B		D	E	F	Ball I.D.	Cv	Weight (Lbs.)
		S SWT	F FPT						
1/2"		4.3	3.8	1.7	1.6	3.4	0.6	5.5	1.1
3/4"		5.4	5.2	1.8	2.4	3.4	0.6	9.0	2.1
1"		5.6	5.3	1.8	2.4	3.4	0.8	9.0	2.1
1 1/4"		7.1	6.6	2.5	3.5	4.4	0.8	28.0	4.1
1 1/2"		7.2	6.6	2.5	3.5	4.4	1.3	28.0	4.2
2"		6.5	6.2	2.75	2.0	5.5	1.7	32.0	

Tail Piece Options	Size	Length	Acceptable Valve Size
Male NPT	1/2"	1.0"	1/2", 3/4", 1"
	3/4"	1.0"	3/4", 1"
	1"	1.2"	3/4", 1"
	1/2", 3/4", 1", 1 1/4", 1 1/2"	1.7" 1.9"	1 1/4", 1 1/2"
Female NPT	1/2", 3/4", 1"	1.0" 1.2"	3/4", 1"
	1", 1 1/4", 1 1/2"	1.7" 1.2"	1 1/4", 1 1/2"
	3/4"	0.5"	1/2"
Female Sweat	1/2"	0.6"	1/2", 3/4", 1"
	3/4"	0.9"	3/4", 1"
	1"	1.0"	3/4", 1"
	3/4", 1", 1 1/4", 1 1/2"	1.7" 1.9"	1 1/4", 1 1/2"

ORDERING FORMULA

TBF - S - 075 - M - 050 - XX - XX - XX
 1 2 3 4 5 6 7 8

1: Model

TBF - Union Ball Valve

2: Union End

F - Female
 S - Sweat

3: Union End Size

1/2" - 050
 3/4" - 075...
 2" - 200

4: Fixed End

M- Male
 F - Female
 S - Sweat

5: Fixed End Size

1/2" - 050
 3/4" - 075...
 2" - 200

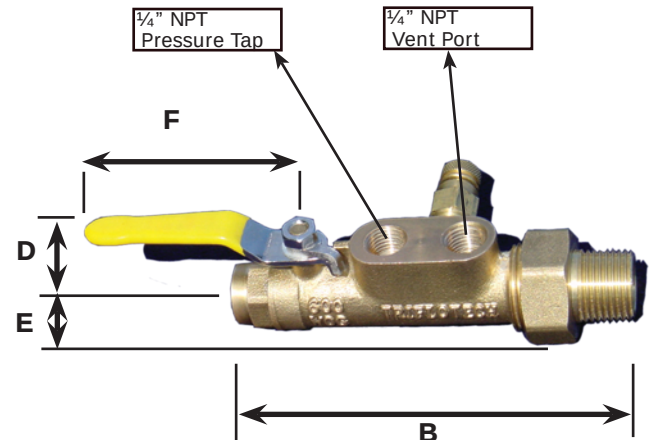
6: Port Options

PT, POT, MAV, or VDBD

7: Port Options

PT, POT, MAV, or VDBD

8: Additional Options (see accessories)



TRI FLO ACCESSORIES

PT - Pressure / Temp Plug

350°F, 1050 PSIG w/ Norderd Core, 1/4" NPT

POT - Pressure Only Tap

220°F, 250 PSIG, positive shut off, 1/4" NPT

MAV - Manual Air Vent

325°F, 400 PSIG, 1/4" NPT, Side Discharge

VDBD - Blow Down / Vent / Drain

325°F, 600 PSIG, 3/4" Hose Rib & Cap, 1/4" NPT

DESIGN DATA - REFERENCE UTAH STATE WATER LABORATORY REPORT

Reference Fluid Dynamics Water Laboratory Report

Independently Calibrated to: +/- 0.33% Accuracy
 Head 'Loss' Recovery: 94%
 Double O-Ring Stem Seals
 O-Ring Seals rating: 600 WOG, 325°F
 Interchangeable Union Tail Peices



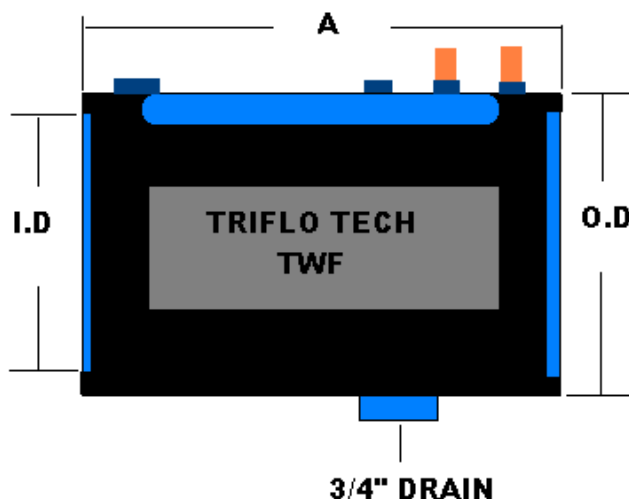
SPECIFICATION INFORMATION

Contractor _____
Job # / PO # _____
Linear Spec # _____
Engineer _____
Project _____
Representative / Territory _____



DIMENSIONS (Inches)

Size	O.D.	I.D.	Length	Flow Rates (In 1 GPM Increments)
2 1/2"	4.875	2.56	6.26	10-126
3"	5.875	3.34	6.26	18-260
4"	6.875	4.86	6.26	36-326
6"	8.750	7.10	6.26	62-526
8"	11.000	9.26	6.26	180-926
12"	13.375	10.80	6.26	360-1526
14"	16.125	13.26	6.26	810-2326
16"	20.250	18.0	6.26	926-2600
18"	21.625	19.1	6.26	1018-3060
20"	23.875	22.6	6.26	1260-3600
24"	28.250	26.0	6.26	1400-4126
30"	34.750	32.6	6.26	1800-5400
36"	41.125	34.2	6.26	2600-6200



ORDERING FORMULA

TWF - 0400 - 200 - XXX
1 2 3 4

1: Model

TWF - Tri W Flo

2: Line Size - Wafer Type

0400 - 4"

3: Flow Rate

200 - 200 GPM

4: Additional Options (see accessories)

MATERIALS & DESIGN DATA

Body:

2.5" - 6.0" Cast Iron 426 PSIG, 350° F

8.0" - 62.0" Fabricated Carbon Steel 400 PSIG, 380° F

60.0" and above consult with our Technical Staff

Cartridge Housing:

C3770 Brass,

All Moving Parts Stainless Steel & EPDM Seal

Butterfly Valve:

TA Lug-Type Stainless Steel Shaft 250 PSIG, 260° F

TRI FLO ACCESSORIES

PT - Pressure / Temp Plug

350° F, 1000 PSIG, w/ Nordel Core, 1/4" MPT

SH - Pressure Only Tap

220° F, 250 PSIG, Positive Shut Off, 1/4" MPT

MV - Manual Air Vent

325° F, 400 PSIG, Side Discharge, 1/4" MPT

BDVD - Blow Down/Vent/Drain

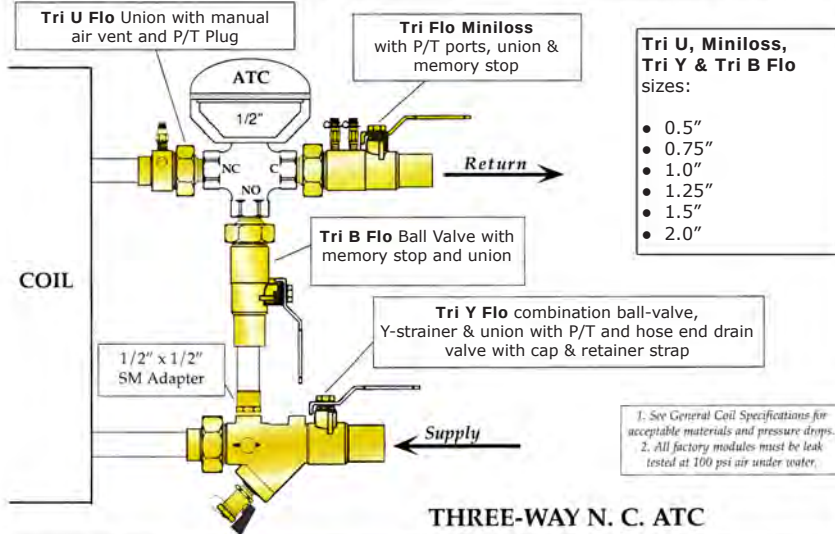
325° F, 600 PSIG, 3/4" Hose Bib & Cap, 1/4" MPT

BV - Butterfly Valve



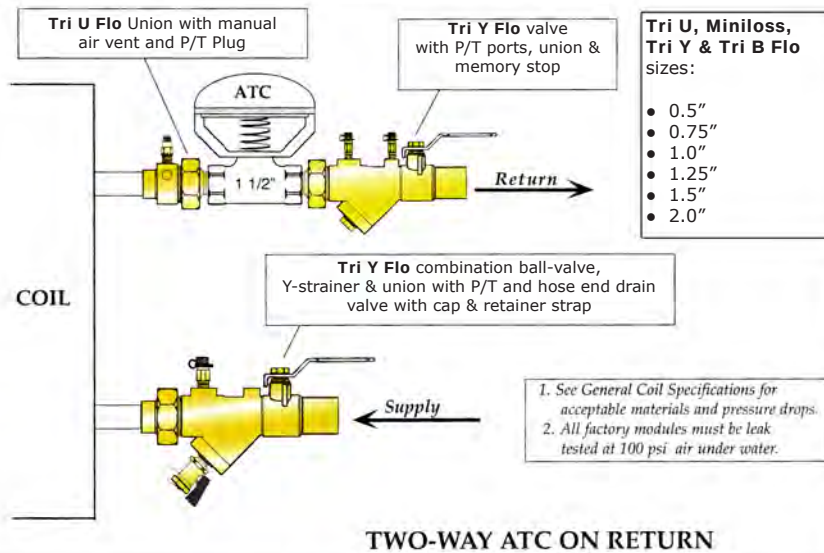
Modular Component Drawing

Coil Detail
Runout with N.C. Mixing - Manual



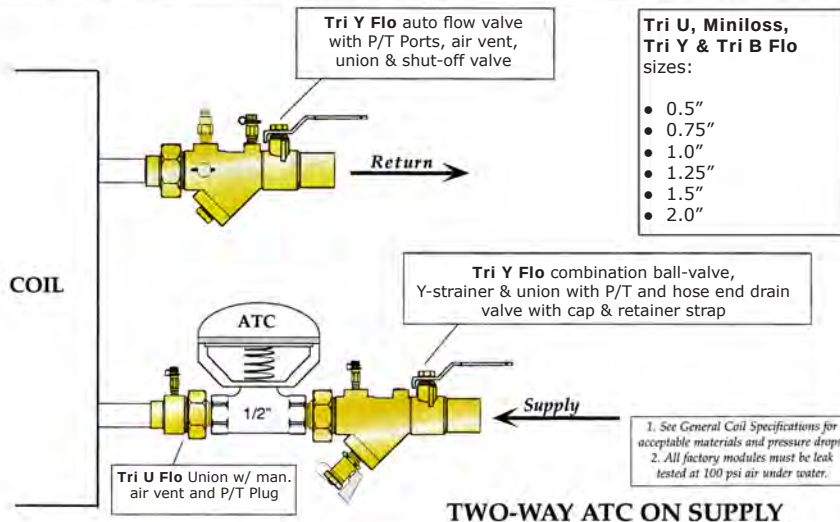
Modular Component Drawing

Coil Detail
Runout with ATC on Return - Automatic



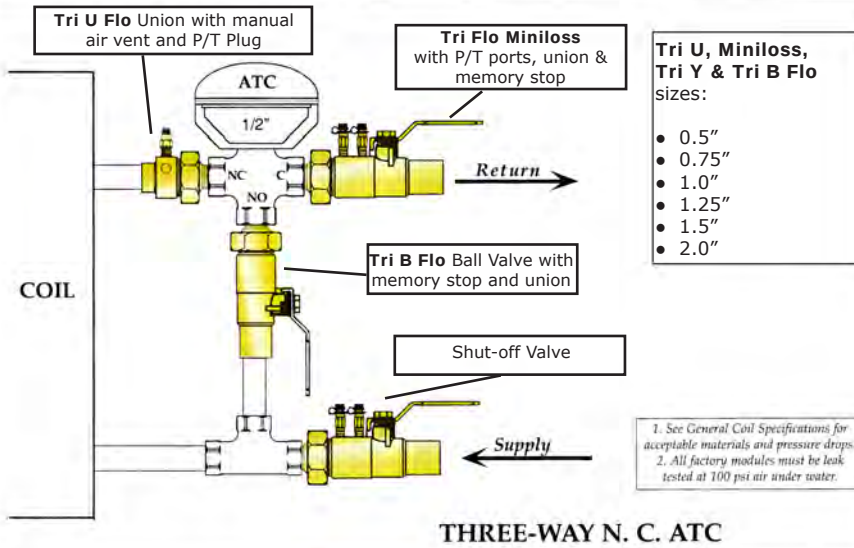
Modular Component Drawing

Coil Detail
Runout with ATC on Supply - Automatic

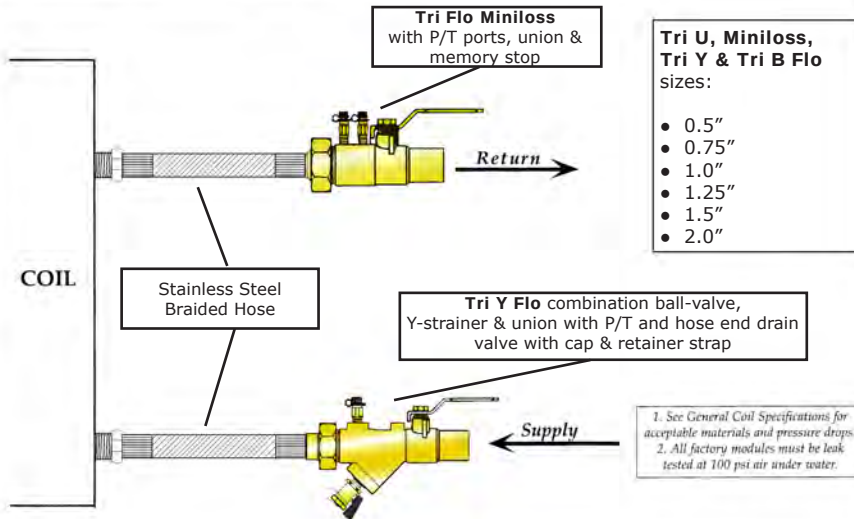




Modular Component Drawing



Modular Component Drawing



Modular Component Drawing

