


ET



Manual Balancing Valves
2 1/2"-14" Flanged steel venturi


Engineering
GREAT Solutions

ET

This AccuSetter is designed to connect directly to a threaded ATC valve. A dielectric union provides cathodic protection between the brass ATC and steel venturi. It has a built-in five-pipe diameter extended inlet section. The AccuSetter uses a low-loss venturi to obtain a measurement accuracy of 3% F. S. The butterfly has a 2" extended neck above the flange for insulation. The valve handle has an infinite-position memory stop. The entire assembly has a five-year warranty. The total pressure drop added to the pump head seldom exceeds one foot. The exact drop can be calculated using the formula on the reverse side. Flow measurement can be obtained with a differential pressure meter reading across the venturi taps. Use the flow chart on the reverse side. The design flow can be obtained by adjusting the valve handle until the desired GPM is reached. The set handle position is maintained by using the memory stop. Use flow table on page 3.



Key features

- > **Low Loss Venturi**
Measure with 3% accuracy
- > **Built-in Straight Run**

> **Memory Stop**
- > **Dielectric Union**
Connect steel pipe to copper based control valve
- > **Infinite Position**
Fine adjustment

Technical description

Application:

Hydronic Balancing

Functions:

Balancing, measurement, shut-off

Dimensions:

2 1/2" - 3", 4"

Accuracy:

±3% F.S.

Pressure class:

240 psi at 250° F

Venturi Material:

Body: Steel ASTM - A120
Instrument Valves: Ext. Pressure/
Temperature Ports
Design: Low loss, piezo-ring throat

Butterfly Valve Material:

Body: Cast iron, lug-type body
ANSI Class 125/150
Seat & Gasket: EPDM
Stem: 410 Stainless Steel
Bearings: Nylon
Disc: Bronze

Model Information

Model ET

Model ET AccuSetter includes an extended inlet with reduced dielectric union, 150# outlet flange with a lug butterfly valve attached to the downstream side. Extended Pressure/Temperature Ports are standard.

Field installation requires one 150# mating flange. Cap screws are included to mate both the butterfly and the customer-supplied flange.

Permanent Pressure Loss Example for ET

Calculate permanent pressure loss for an ET300 at 120 GPM.

$$\text{Permanent Loss (psi)} = 0.10 (\Delta P) + \left(\frac{\text{GPM}}{C_v} \right)^2$$

Diff. Pressure (ΔP) = 209" W.C. or 7.55 psi (from table)

$$\text{Permanent Loss (psi)} = .10 (7.55) + \left(\frac{120}{262} \right)^2 = .75 + .21 = .96 \text{ psi or } 2.22 \text{ feet}$$

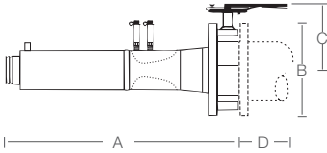
Important Note: Do NOT use any other flow curves or tables with model ET.			
Flow GPM	Models		
	ET250	ET300	ET400
24	23		
26	27	10	
28	31	11	
30	36	13	
32	41	15	
34	46	17	
36	52	19	
38	58	21	
40	64	23	
42	70	26	
44	77	28	
46	84	31	
48	92	33	
50	100	36	
55	121	44	
60	144	52	
65	169	61	13

Important Note: Do NOT use any other flow curves or tables with model ET.			
Flow GPM	Models		
	ET250	ET300	ET400
70	196	71	15
75	224	82	17
80	255	93	20
85	288	105	22
90		118	25
95		131	28
100		145	31
110		176	37
120		209	44
130		245	52
140		285	60
150		327	69
160		372	79
170		420	89
180		470	100
190			111
200			123

Important Note: Do NOT use any other flow curves or tables with model ET.			
Flow GPM	Models		
	ET250	ET300	ET400
220			149
240			178
250			193
260			208
280			242
300			277
325			
350			
375			
400			
425			
450			
475			
500			
525			
550			

Articles

Dimensions



Model	Size	Connections	A	B	C	D	Weight	Cv
ET0250-100	2 1/2"	1" Inlet & 2 1/2" Outlet	25.3	7.0	7.2	9.0	29.1	151
ET0250-125	2 1/2"	1 1/4" Inlet & 2 1/2" Outlet	25.3	7.0	7.2	9.0	29.1	151
ET0250-150	2 1/2"	1 1/2" Inlet & 2 1/2" Outlet	25.3	7.0	7.2	9.0	29.1	151
ET0250-200	2 1/2"	2" Inlet & 2 1/2" Outlet	25.3	7.0	7.2	9.0	29.1	151
ET0300-125	3"	1 1/4" Inlet & 3" Outlet	31.4	7.5	7.6	9.0	43.3	262
ET0300-150	3"	1 1/2" Inlet & 3" Outlet	31.4	7.5	7.6	9.0	43.3	262
ET0300-200	3"	2" Inlet & 3" Outlet	31.4	7.5	7.6	9.0	43.3	262
ET0400-150	4"	1 1/2" Inlet & 4" Outlet	40.1	9.0	8.4	9.0	69.6	647
ET0400-200	4"	2" Inlet & 4" Outlet	40.1	9.0	8.4	9.0	69.6	647

Notes

All weights and dimensions given are in pounds and inches and are subject to change. Venturi products made from fabricated materials may vary ±1/16 inch per component.

Model Order Designation



Options Available

- AV** Manual Air Vent
- C2** 1/2" Accessory Port
- C3** 3/4" Accessory Port
- C4** 1/4" Accessory Port
- HN** Hose End Drain Valve
- MI** Metal ID Tag
- PI** Plastic ID Tag
- SE** Stem Extender

