# **Terminator G**



# Y-Pattern Multi-turn • Globe Valve • Threaded and Solder Connections • Memory Stop • 300 WOG



ΤG

## Features

- "Y" pattern globe style design
- Dezincification resistant brass
- Positive shut-off
- Offsetting pressure/temperature ports
- Multi-turn, 360° handwheel with vernier scale and digital readouts
- Built-in memory stop
- · Precise flow measurement and flow balancing

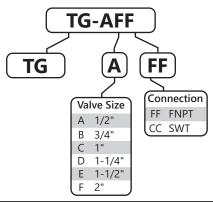
# **Temperature and Pressure Rating**

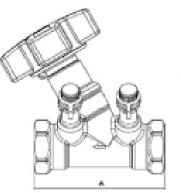
- 300 PSI
- -4°F to 250°F

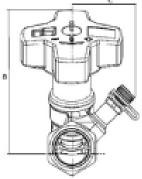
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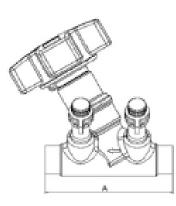
	Part Number	Size	A	В	с	Minimum Flow	Nominal Flow	Maximum Flow
FNPT	TG-AFF	1/2"	3.39	3.74	1.57	0.14	0.50-3.08	12.10
	TG-BFF	3/4"	3.54	3.74	1.65	0.26	3.80-5.50	17.40
	TG-CFF	1"	4.02	3.78	1.73	0.37	5.50-9.50	30.00
	TG-DFF	1-1/4"	4.72	3.78	1.85	0.60	9.50-14	44.60
	TG-EFF	1-1/2"	5.20	4.25	1.93	0.91	14-20	66.40
	TG-FFF	2"	6.46	4.37	2.09	1.52	20-33	107.20
SWT	TG-ACC	1/2"	3.39	3.74	1.57	0.14	0.50-3.08	12.10
	TG-BCC	3/4"	3.54	3.74	1.65	0.26	3.80-5.50	17.40
	TG-CCC	1"	4.02	3.78	1.73	0.37	5.50-9.50	30.00
	TG-DCC	1-1/4"	4.72	3.78	1.85	0.60	9.50-14	44.60
	TG-ECC	1-1/2"	5.20	4.25	1.93	0.91	14-20	66.40
	TG-FCC	2"	6.46	4.37	2.09	1.52	20-33	107.20

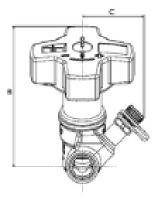
# **Smart Part Ordering Guide**











## **Cv Values**

Handwheel Setting	1/2″	3/4″	1″	1-1/4″	1-1/2″	2″
1	0.21	0.39	0.56	0.92	1.39	2.32
1.5	0.29	0.56	0.75	1.28	1.97	3.25
2	0.37	0.70	0.89	1.53	2.38	4.18
2.5	0.44	0.82	1.04	1.80	2.78	5.10
3	0.52	0.96	1.19	2.09	3.25	6.03
4	0.72	1.31	1.74	3.13	4.76	8.82
5	1.00	1.80	2.67	4.76	7.19	13.80
6	1.36	2.44	4.18	6.84	10.30	19.40
7	1.88	3.36	5.80	9.05	13.90	24.60
8	2.96	4.47	7.54	11.30	17.10	29.00
9	3.65	5.22	9.16	13.30	19.80	33.20
10	4.12	5.92	10.2	15.2	22.6	36.5

# **Material Specifications**

Part	Material	
Body, Bonnet	Brass - C35330	
Gasket	EPDM	
Seat Seal	EPDM	
Hand Wheel	Plastic	



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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# TG

**0.50" - 2.00"** This diagram details the relationship between flow, pressure drop and valve preset points. Use the diagram to select the correct valve size and corresponding handwheel setting to fulfill the application requirements.

Determine the required flow in the circuit (A) and the pressure drop (B). Draw a line between these two values. Read off the corresponding Cv value on the Cv scale.

Determine the valve setting, in handwheel turns, by drawing a horizontal line (D) from the intersection point on the Cv scale to the corresponding valve setting position.

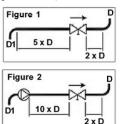
For the highest level of accuracy, it is recommended to choose a valve that has at least 3 open turns.

**Example:** A 1" valve is

required to be open 8 turns for a Cv value of 7.5 at a flow rate of 10 gpm and a pressure drop of 4ft.

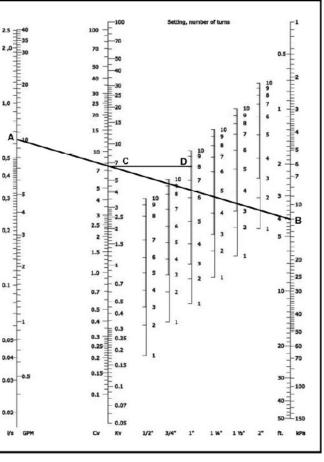
# **Installation Recommendations**

Install the valve in the correct flow direction according to the arrow on the valve body and the distance parameters detailed in Figure 1. (Note: D = pipe diameter).



When used with a pump, it is recommended to use a straight length of pipe totaling  $10 \times D$  (instead of  $5 \times D$ ) upstream or downstream to avoid turbulence that will affect the measuring accuracy. See Figure 2.

Turbulence can influence the measurements by up to 20% if this recommendation is not followed.



# Flow Measurement & Accuracy

Determined using the pressure drop diagram that is included in the operating instructions with each Jomar Balancing Valve.

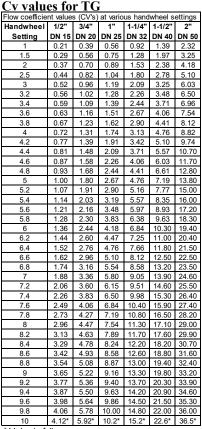
The accuracy is highest when the valve is fully open. Therefore, it is recommended to choose a valve that can be opened at least three turns at the calculated pre-setting value. Figure 3 represents the flow measurement deviation in relation to handwheel turns.

## **Correction for Liquids**

Applies to liquids other than water. Correct the measured flow (q) by the density (Y) according to this formula. See Figure 4.

## Sizing a Balancing Valve

When the differential pressure and design flow are known, use this formula to calculate Cv value. See Figure 5.



Valve is fully open

