

HCI Terminator A

INTEGRATED AUTOMATIC BALANCING VALVE / UNION

MECHANICAL SPECIFICATIONS



The **Terminator A** by **HCI** combines the features of a isolation valve, union, pressure/temperature readout ports with an automatic flow control cartridge into a single compact unit. The stainless steel flow controlling spring loaded cartridge is designed to perform within a +/- 5% accuracy while eliminating vortexing and turbulence. The stainless steel spring will automatically start engaging to maintain the flow rate over an operating range of 2-50 PSID differential pressure across the cartridge. The **Terminator A** can be installed vertically or horizontally without any up or downstream straight pipe requirements. The forged brass body insures reliable, leak-free performance. Multiple taps/bosses offer versatility for additional accessories to accommodate piping configuration requirements. For ultimate performance results eliminate, air, dirt or debris from the system with **HCI's TV-A** (manual air vent) and our **Terminator S** (combination isolation valve, strainer, union with PT port).

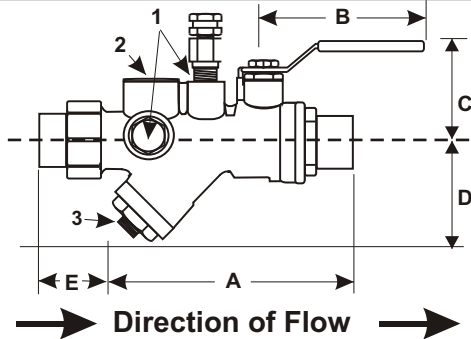
Pressure/ Temperature Ratings:

1/2" - 2": 600 PSI WOG Non - Shock
All Sizes: 325 Deg. F. Maximum

Optional Accessories:

- Air Vent - Handle Extensions - Drains
- PT/Port Accessory/Extension - Flex Hoses - Dielectric Insulator

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.

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
Automatic Flow Cartridge:	304 Stainless Steel Spring

Automatic flow control cartridges can also be batch manufactured and custom crafted from a variety of different materials such as Stainless Steel, 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.

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

Cartridge Sizes

Flow Rate in GPM

1/2" Low	0.25, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0
1/2" High	3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0
3/4" Low	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0
3/4" High	10.0, 11.0, 12.0, 13.0, 14.0, 15.0
1" Low	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0
1" High	10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0
1-1/4" Low	5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0
1-1/4" High	21.0, 22.0, 23.0, 24.0, 25.0, 26.0, 27.0, 28.0, 29.0, 30.0, 31.0, 32.0
1-1/2" Low	5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0
1-1/2" High	21.0, 22.0, 23.0, 24.0, 25.0, 26.0, 27.0, 28.0, 29.0, 30.0, 31.0, 32.0, 33.0, 34.0, 35.0, 36.0, 37.0, 38.0
2" Low	10.0, 15.0, 20.0, 25.0, 30.0
2" High	35.0, 40.0, 45.0, 50.0, 55.0, 60.0, 65.0, 70.0, 75.0, 80.0, 85.0, 90.0

Typical Specifications:

Furnish and install where indicated on plans **Terminator A** integrated terminal unit automatic flow control valves as provided by **Hydronic Components, Inc.** Valves shall be rated for 600 PSI WOG service, (1/2"-2"). Valves shall be provided complete with isolation valve, chrome plated ball and triple seal blowout-proof stem, union and integrated field changeable automatic flow control cartridge performing within +/- 5% accuracy.

JOB: _____
REP: _____

ENGINEER: _____
CONTRACTOR: _____

HCI innovative hydronic components and accessories for the HVAC industry.
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