





Automatic Balancing Valves

Flow regulator & union







AutoFlow combination ball valve, AutoFlow regulator and union with up to five (5) accessory port locations. Unit is factory set to automatically limit the flow rate to within 5% of the specified amount. The flow cartridge is removable from the valve body to provide access for flow rate changes, inspection, and cleaning without breaking the main piping. The ball valve has PTFE packing, brass packing nut and blowout-proof stem, large diameter plated ball and a full size steel handle with vinyl grip. The union has an EPDM "o"-ring and tailpiece available in M, F and S connections. Ball valve end is available only in FPT or SWT. Pressure / Temperature ports are standard.



Key features

- > Flow Limiting No wasted pumping
- > Combination Valve
 Union, regulator and shut-off in one
- > +/- 5%
- > Tamper Resistant

Technical description

Application:

Hydronic Balancing

Functions:

Flow regulator, union and shut-off

Dimensions:

1/2" - 2"

Rating

400 psig at 250° F (27 bar at 120° C)

Pressure range:

2-32 psi or 5-60 psi

Accuracy:

±5%

Material:

Body: DZR Brass

Flow cartridge: Series 300 stainless steel wear surfaces with stainless steel spring



Connections

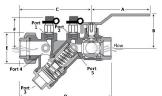
S = sweat F = female NPT M = male NPT

Model	Size in./mm	Fixed Conn. (Outlet) in./mm	Union Conn. (Intlet) in./mm			
AC0050	1/2" (15)	1/2" (15) S, F	3/8 (10) S 1/2 (15) F, M, S 3/4 (20) F, M, S			
AC0075	3/4" (20)	3/4" (20) S, F	3/8 (10) S 1/2 (15) F, M, S			
AC0100R*	1" (25)	1" (25) S, F	3/4 (20) F, M, S 1 (25) M, S			
AC0100	1" (25)	1" (25) S, F	1/2 (15) M, S 3/4 (20) F, M, S 1 (25) F, M, S 1 1/4 (32) F, M, S			
AC0125	1 1/4" (32)	1 1/4" (32) S, F	1/2 (15) M, S 3/4 (20) F, M, S			
AC0150R*	1 1/2" (40)	1 1/2" (40) S, F	1 (25) F, M, S 1 1/4 (32) F, M, S 1 1/2 (40) M, S			
AC0150	1 1/2" (40)	1 1/2" (40) S, F	1 1/4 (32) F, M, S 1 1/2 (40) F, M, S 2 (50) F, M, S			
AC0200	2" (50)	2" (50) S, F	1 1/4 (32) F, M, S 1 1/2 (40) F, M, S 2 (50) F, M, S			

Flow Rate

Size	psid Range	Flow Rate (gpm)					
1/2" - 3/4"	2 - 32 (L)	0.33, 0.5, 0.67, 0.75, 0.88, 1.0, 1.1, 1.25, 1.5, 1.75, 2.0, 2.25, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.28, 6.0, 7.0, 8.0					
	5 - 60 (H)	1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10, 11, 12					
1" - 1 1/4"	2 - 32 (L)	0.5, 0.67, 0.75, 0.88, 1.0, 1.1, 1.25, 1.5, 1.75, 2.0, 2.25, 2.5, 2.64, 3.0, 3.5, 4.0, 4.5, 5.0, 5.28, 6.0, 7.0, 8.0, 9.0, 10,					
		11, 12, 13, 14, 15, 16, 17, 18, 19					
	5 - 60 (H)	1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27					
1 1/2" - 2"	2 - 32 (L)	5.0, 6.0, 7.0, 8.0, 9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46,					
		48, 50					
	5 - 60 (H)	8.0, 9.0, 10, 11, 12, 13, 14, 15, 16, 17,18,19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46,					
		48, 50, 52, 54, 56, 58,60, 62, 64, 68, 70					
0:	LD. D.						
Size	kPa Range	Flow Rate (lps)					
15 - 20 mm	14 - 220 (L)	0.021, 0.032, 0.042, 0.047, 0.056, 0.063, 0.069, 0.079, 0.095, 0.110, 0.126, 0.142, 0.158, 0.167, 0.189, 0.221,					
		0.252, 0.284, 0.315, 0.333, 0.379, 0.442, 0.505					
	35 - 414 (H)	0.063, 0.095, 0.126, 0.158, 0.189, 0.252, 0.315, 0.379, 0.442, 0.505, 0.568, 0.631, 0.694, 0.757					
25 - 32 mm	14 - 220 (L)	0.032,0.042,0.047,0.056,0.063,0.069,0.079,0.095,0.110,0.126,0.142,0.158,0.167,0.189,0.221,0.252,0.042,0.042,0.047,0.044,					
		0.284, 0.315, 0.333, 0.379, 0.442, 0.505, 0.568, 0.631, 0.694, 0.757, 0.820, 0.883, 0.946, 1.009, 1.073, 1.136, 1.199					
	35 - 414 (H)	0.063, 0.095, 0.126, 0.158, 0.189, 0.252, 0.315, 0.379, 0.442, 0.505, 0.568, 0.631, 0.694, 0.757, 0.820, 0.883, 0.631, 0.694, 0.757, 0.820, 0.883, 0.8					
		0.946, 1.009, 1.073, 1.136, 1.199, 1.262, 1.325, 1.388, 1.451, 1.514, 1.577, 1.640, 1.703					
40 - 50 mm	14 - 220 (L)	0.315, 0.379, 0.442, 0.505, 0.568, 0.631, 0.694, 0.757, 0.820, 0.883, 0.946, 1.009, 1.073, 1.136, 1.199, 1.262,					
		1.388, 1.514, 1.640, 1.767, 1.893, 2.019, 2.145, 2.271, 2.397, 2.524, 2.650, 2.776, 2.902, 3.028, 3.155					
	35 - 414 (H)	0.505, 0.568, 0.631, 0.694, 0.757, 0.820, 0.883, 0.946, 1.009, 1.073, 1.136, 1.199, 1.262, 1.325, 1.388, 1.451,					
		1.514,1.577, 1.640, 1.703, 1.767, 1.893, 2.019, 2.145, 2.271, 2.397, 2.524, 2.650, 2.776, 2.902, 3.028, 3.155,					
		3.281, 3.407, 3.533, 3.659, 3.785, 3.912, 4.038, 4.290, 4.416					

Articles



Dimensions / Flow

Maximum Flow gpm (lps)*
Control Range psi (kpa)

Model	Size	Α	В	С	D	E	F	Weight		2-32 (L)	5-60 (H)
-	in.	in.	in.	in.	in.	in.	in.	lb.	Cvs	(14-220)	(35-414)
AC0050	1/2	4.1	2.0	4.8	6.7	2.1	2.2	2.5	7.9	8	12
AC0075	3/4	4.1	2.0	4.9	6.7	2.1	2.2	2.5	8.8	8	12
ACR100*	1	4.1	2.0	5.5	7.6	2.1	2.2	2.5	8.8	8	12
AC0100	1	4.7	2.7	6.6	9.5	2.8	2.3	6.2	19.7	19	27
AC0125	1 1/4	4.7	2.7	6.6	9.6	2.8	2.3	6.1	20.4	19	27
AC0150*	1 1/2	4.7	2.7	7.9	10.7	2.8	2.3	6.8	20.4	19	27
AC0150	1 1/2	5.6	3.6	8.4	11.7	3.8	2.4	15.6	52.7	50	70
AC0200	2	5.6	3.6	8.5	12.0	3.8	2.4	15.4	55.1	50	70

Notes

Weight and dimension based on FXF connections and will vary with mixed options/connections.

All weights and dimensions are subject to minor changes.

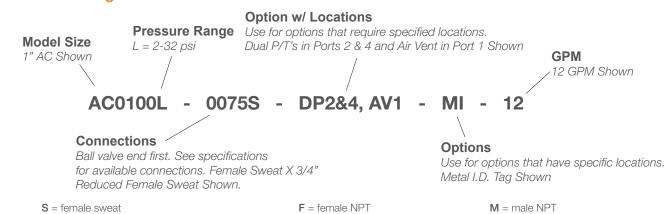
Cvs based on the body only without flow regulator.

For pump head calculations, add the indicated pressure drop of 4.6 ft or 2 psi for 2-32 psi or 11.6 ft or 5 psi for 5-60 psi to the calculated drop for other components.

* Denotes female thread not available on union end.

Available in ISO7 threads.

Model Order Designation



Options Available

AA Manual Air Vent MI Metal ID Tag SE Stem Extender

X Ext. P/T Ports PI Plastic ID Tag T4 1/4" Tap

Extended Handle PL Plug

HN Hose End Drain PP ProPress®



