

ABe/AB

Automatic Balancing Valve

NuTech's ABe & AB Automatic Balancing Valve is a combination Ball Valve, Automatic Flow Control Device and Union. The removable Flow Cartridge is factory set to automatically limit the GPM to within $\pm 5\%$ of the specified flow. The Ball Valve has a chrome plated Ball, Teflon Seats and a blowout proof Stem with double EPDM O-ring Seals. The Union has an EPDM O-ring Seal with End Connections available in SWT, FNPT, MNPT, *Press End & *Direct Connect Hose Assembly. Standard features include Memory Stop and Dual Pressure/Temperature Ports.



PRODUCT INFORMATION

PART	MATERIALS	
Body	Forged Brass	
End Conn.	Brass	Fixed End: SWT, FNPT & *Press End Union End: SWT, FNPT, MNPT, *Press End & *Direct Connect HA
Cartridge	0.50" - 1.50"	Ultrason® Composite with Stainless Steel Spring 0.35 - 21.0 GPM
	1.50" - 2.00"	300 Stainless Steel Wear Surfaces with Stainless Steel Spring 22.0 - 70.0 GPM
Stem	Brass Optional 316 Stainless Steel	
Ball	Chrome Plated Brass Optional 316 Stainless Steel	
Seals	EPDM	
Seats	Teflon	
Handle	Zinc Plated Lever With Vinyl Grip	
Memory Stop	Zinc Plated Steel	

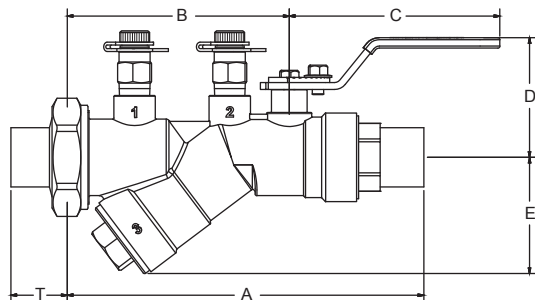
SPECIFICATIONS

Function:	Automatic Balancing Valve, Union and Shut Off Valve
Sizes:	0.50" - 2.00"
Ratings:	Pressures to 600 PSIG (4140 kPa) Temperatures to 250° F (120° C)
Pressure Range:	2-32 PSID (0.50" - 1.50") 2-32 & 5-60 PSID (2.00")
Accuracy:	$\pm 5\%$ of flow rate

CONNECTIONS

MODEL - SIZE	FIXED END SIZE	FIXED END TYPE	TAIL PIECE SIZE	TAIL PIECE TYPE
AB1e - 050	0.50" 15mm	S, F, P	0.50", 0.75", (1.00" requires optional UA-1 Kit)	S, F, M, P, H
AB1e - 075	0.75" 20mm	S, F, P	0.50", 0.75", (1.00" requires optional UA-1 Kit)	S, F, M, P, H
AB1e - 100	1.00" 25mm	S, F, P	0.50", 0.75", 1.00"	S, F, M, P, H
AB2e - 075	0.75" 20mm	S, F, P	0.50", 0.75", 1.00", (1.25" requires optional UA-2 Kit)	S, F, M, P, H
AB2e - 100	1.00" 25mm	S, F, P	0.50", 0.75", 1.00", (1.25" requires optional UA-2 Kit)	S, F, M, P, H
AB2e - 125	1.25" 32mm	S, F, P	0.50", 0.75", 1.00", 1.25"	S, F, M, P, H
AB3e - 100	1.00" 25mm	S, F, P	(0.50" M only), 0.75", 1.00", 1.25", 1.50"	S, F, M, P, H
AB3e - 125	1.25" 32mm	S, F, P	(0.50" M only), 0.75", 1.00", 1.25", 1.50"	S, F, M, P, H
AB3e - 150	1.50" 40mm	S, F, P	(0.50" M only), 0.75", 1.00", 1.25", 1.50"	S, F, M, P, H
AB4 - 150	1.50" 40mm	S, F, P	(1.00" M only), 1.25", 1.50", 2.00"	S, F, M, P, H
AB4 - 200	2.00" 50mm	S, F, P	(1.00" M only), 1.25", 1.50", 2.00"	S, F, M, P, H

Connections: S = Sweat, F = Female FNPT, M = Male MNPT, *P = Press End, *H = Direct Connect Hose Assembly *Optional Accessories are an additional charge



ABe/AB 0.50"- 2.00" Automatic Balancing Valve

NOMINAL DIMENSIONS, WEIGHTS & FLOWS

MODEL / BODY SIZE	SIZE		A			B	C	D	E	*T SWT	Wgt lbs	GPM SETTINGS 2-32 PSID
	in	mm		FNPT	SWT							
AB1e - 050	0.50"	15	in	5.28	5.64	3.59	2.33	1.61	1.91	0.83	1.78	0.35, 0.50, 0.66, 0.75, 0.88, 1.00, 1.10, 1.30, 1.50, 1.75, 2.00, 2.20, 2.50, 2.65, 3.00, 3.50, 4.00, 4.50, 5.00
			mm	134.1	143.3	91.2	59.18	40.9	48.5	21.08		
AB1e - 075	0.75"	20	in	5.41	5.92	3.59	2.33	1.61	1.91	0.98	1.83	
			mm	137.4	150.4	91.2	59.18	40.9	48.5	24.89		
AB1e - 100	1.00"	25	in	5.75	6.21	3.59	2.33	1.61	1.91	0.92	1.97	
			mm	146.1	157.7	91.2	59.18	40.9	48.5	23.37		
AB2e - 075	0.75"	20	in	5.74	6.20	3.86	3.66	2.08	2.02	0.88	2.09	0.35, 0.50, 0.66, 0.75, 0.88, 1.00, 1.10, 1.30, 1.50, 1.75, 2.00, 2.20, 2.50, 2.65, 3.00, 3.50, 4.00, 4.50, 5.00, 6.00, 7.00, 8.00, 9.00, 10.00 (12.00 - AB2e -100 & AB2e -125 only)
			mm	146.02	157.48	98.04	92.99	52.83	51.33	22.35		
AB2e - 100	1.00"	25	in	5.96	6.36	3.86	3.66	2.08	2.02	0.92	5.05	
			mm	151.51	161.54	98.04	92.99	52.83	51.33	23.37		
AB2e - 125	1.25"	32	in	6.14	6.69	3.86	3.66	2.08	2.02	1.43	5.05	
			mm	155.96	169.93	98.04	92.99	52.83	51.33	36.32		
AB3e - 100	1.00"	25	in	8.60	9.44	5.62	5.03	2.26	3.00	1.41	6.03	5.00, 6.00, 7.00, 8.00, 9.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00
			mm	218.4	239.8	142.9	127.76	57.40	76.19	35.81		
AB3e - 125	1.25"	32	in	8.67	9.66	5.62	5.03	2.26	3.00	1.43	6.14	
			mm	220.1	245.3	142.9	127.76	57.40	76.19	36.32		
AB3e - 150	1.50"	40	in	8.67	9.91	5.62	5.03	2.26	3.00	1.17	6.21	
			mm	220.1	251.7	142.9	127.76	57.40	76.19	29.71		
AB4 - 150	1.50"	40	in	9.59	9.91	7.44	5.66	2.83	3.91	1.17	8.63	11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00, 24.00, 26.00, 28.00, 30.00, 32.00, 34.00, 36.00, 38.00, 40.00, 42.00, 44.00, 46.00, 48.00, 50.00
			mm	249.6	251.7	189.0	143.6	71.9	99.5	29.72		
AB4 - 200	2.00"	50	in	9.59	10.35	7.44	5.66	2.83	3.92	1.5	8.65	
			mm	249.6	262.89	189.0	143.6	71.9	99.57	38.1		

Nominal Dimensions & Weights shown above are not to be used for construction purposes unless first certified by the Factory.

*Refer to NuTech Replacement Tailpiece Chart

ORDERING DESIGNATION

AB1e - 050 - S - 050 - S - XX - 5.00				
MODEL / BODY SIZE	AB1e (Shown), AB2e, AB3e & AB4	FIXED END CONNECTION SIZE	0.50" (Shown)	GPM FLOW
		FIXED END CONNECTION TYPE	S = SWT (Shown), F = FNPT, *P = Press End	5.00 (Shown)
		TAILPIECE CONNECTION TYPE	S = SWT (Shown), F = FNPT, M = MNPT, *P = Press End, *H = Direct Connect HA	ACCESSORIES
		TAILPIECE CONNECTION SIZE	0.50" (Shown)	*Optional Accessories Designations Below

Fixed End & Tailpiece Connections: S = Sweat SWT, F = Female FNPT, M = Male MNPT *Optional Connections: *P = Press End, *H = Direct Connect Hose Assembly

AVAILABLE OPTIONS Please note *Optional Accessories are an extra charge and not included in the standard model price.

Accessory Designations:	DX Dual PT Extenders	PX Extended P/T Vent	UA-1 Union Adaptor Kit
BT Bag & Tag	EH Extended Handle	SH Short Lever Handle (AB2e only)	UA-2 Union Adaptor Kit
CC Connection Charge	HT Hanging Tag (Plastic)	SS 316 SS Ball & Stem	
DV Drain Valve	PV Pressure/Temperature Vent	SX Single Extended PT	