Series 400B

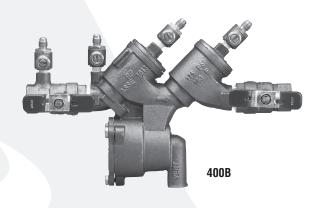


Reduced Pressure Zone Assemblies

Sizes: 3/4" - 2" (20 - 50mm)

Features

- Separate access covers for the check valves and relief valve for ease of maintenance
- Top entry-all check internals easily accessible
- All rubber elastomers of chloramine resistant material
- Check valve poppet assemblies are fully guided by innovative plastic seat guide
- Replaceable push-in check valve and relief valve seat eliminates threads from the water way
- EZ twist relief valve cover-quarter turn locking joint captures the spring load during repair to facilitate disassembly
- Innovative check valve plastic cover bushing provides trouble free guiding of the check valve poppet
- Bottom mounted relief valve provides reduced installation clearances
- · Compact, space saving design
- · No special tools required for servicing
- Top mounted test cocks for ease in testing and reduced installation clearances
- Standardly furnished with NPT body connections



Series 400B Reduced Pressure Zone Assemblies are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. This series can be used in a variety of installations, including the prevention of health hazard cross-connections or for containment at the service line entrance.

This series features two poppet style check valves, replaceable check seats, with an intermediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes $^{3}/_{4}" - 1"$ (20 – 25mm) shutoffs have tee handles.

Specifications

A Reduced Pressure Zone Assembly shall be installed at each potential health hazard location to prevent backflow due to backsiphonage and/or backpressure. The assembly shall consist of a pressure differential relief valve located in a zone between two positive seating check valves. Seats and seat discs shall be replaceable in both check valves and the relief valve without the use of special tools. Service of all internal check valve components shall be through top mounted access covers threaded to the main valve body. The check valve poppet assembly shall be guided via the use of a corrosion resistant plastic guide. The check valve and relief valve seats shall be push-in type. The relief valve cover shall be secured with stainless steel bolts and shall utilize a quarter-turn locking joint to capture the spring load of the relief valve. The relief valve shall have an internal sensing line to sense the inlet water supply. All rubber elastomers shall be of chloramine resistant material. The assembly shall also include two resilient seated isolation valves, four top-mounted resilient seated test cocks and an air gap drain fitting. The assembly shall be an Ames Company Series 400B.

Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

Ames product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Technical Service. Ames reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Ames products previously or subsequently sold.

Available Models

Suffix:

B - quarter-turn ball valves

S – bronze strainer LBV – less ball valve

A – elbow fitting for 360° rotation

Z – inlet & outlet flow upPC – polymer coated

LH – locking handle ball valves (open position)

C&T – cap & tether test cocks FP – slow close ball valves

Prefix:

U – union connections

Materials

Body: Bronze

Discs: Silicone rubber

Check Seats: Replaceable polymer

Cover Bolts: Stainless steel

IMPORTANT: Inquire with governing authorities for local installation requirements.

Pressure — **Temperature**Temperature Range: 33°F – 180°F (3°C – 82°C)

Temperature Range: 33°F – 180°F (3°C – 82°C) Maximum Working Pressure: 175psi (12.06 bar)

Approvals

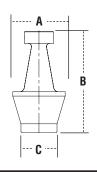






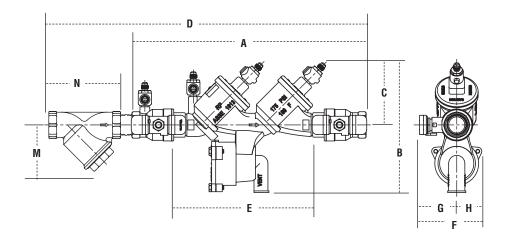
Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California. (for sizes $^3/_4$ " – 2")

Air Gaps



AIR GAP MODEL	SIZES			WEIGHT					
		,	А		3	(C		
		in.	mm	in.	mm	in.	mm	lbs.	kg.
400B-AGC	3/4" & 1"	23/8	60	31/8	79	1/2	13	.63	.28
400B-AGF	11/4" – 2"	43/8	111	87/16	214	3	76	4.26	1.93

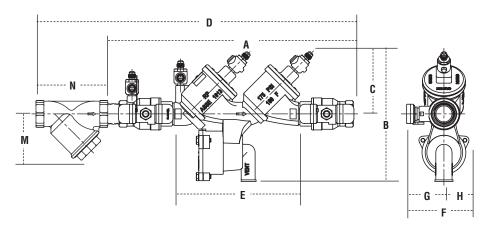
Dimensions and Weights



400B, 400B-S

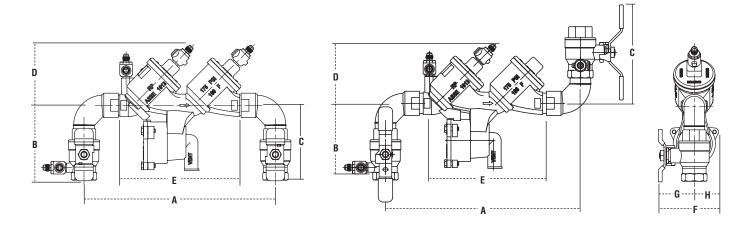
SIZE (DN)									DIMENSIONS									STRAINER DIMENSIONS						WEIGHT			
		A		ВС		C D			E (LF)		F		G		Н		M		N		400B		400B-S				
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs		
3/4	20	12 ¹ /8	307	77/16	188	31/2	88	15 ¹ / ₂	393	711/16	195	35/8	92	21/16	52	1 9/ ₁₆	40	1 ⁵ / ₈	41	33/16	81	8.3	3.7	10.0	4.5		
1	25	141/2	368	8	202	37/8	98	193/16	487	93/16	233	4	102	27/16	62	1 9/ ₁₆	40	21/8	54	33/4	95	11.8	5.4	13.8	6.3		
11/4	32	18 ¹ / ₈	461	11 ⁷ / ₁₆	290	51/8	129	231/4	591	11 ¹¹ / ₁₆	297	5 ¹ / ₈	130	2 ⁵ / ₈	67	21/2	64	21/2	64	47/16	113	22.3	10.1	26.3	11.9		
11/2	40	183/4	476	117/16	290	51/8	129	25 ¹ / ₁₆	637	11 ¹¹ / ₁₆	297	5 ⁵ /8	143	31/8	79	21/2	64	3	76	47/8	124	28.3	12.8	32.0	14.5		
2	50	211/16	535	121/16	307	55/8	142	2813/16	732	133/8	340	515/16	151	37/16	87	21/2	64	39/16	90	5 ¹⁵ / ₁₆	151	37.3	16.9	45.0	20.4		

Dimensions and Weights



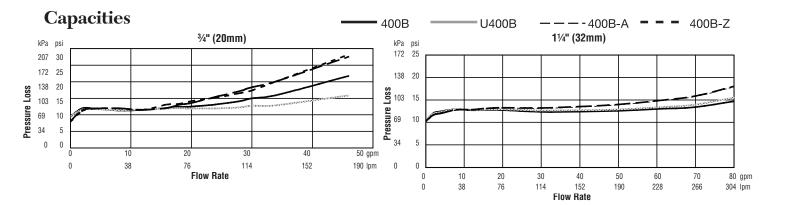
U400B, U400B-S

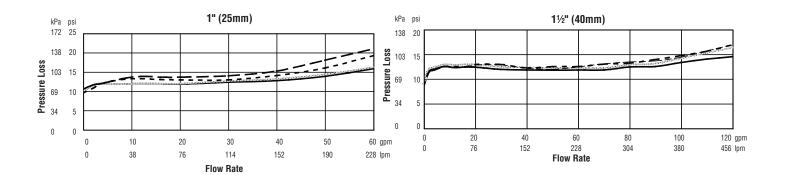
SIZE	SIZE (DN)										DIMENSIONS								STRAINER DIMENSIONS				WEIGHT			
		А		A B		3	С		D	E		E (LF) F			G		Н		M		N		U400B		U40	00B-S
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.	
3/4	20	16 ¹⁵ / ₁₆	430	81/16	204	37/8	98	205/16	515	11 ¹ / ₂	292	35/8	92	21/16	52	1 9/16	40	1 ⁵ /8	41	33/16	81	13.4	6.1	15.1	6.9	
1	25	17 ¹ / ₈	435	81/16	204	37/8	98	2113/16	554	113/4	297	4	102	27/16	62	1 9/ ₁₆	40	21/8	54	33/4	95	13.3	6.0	15.3	6.9	
11/4	32	2015/16	532	11 ⁷ / ₁₆	290	5 ¹ / ₈	129	261/16	662	15 ³ / ₈	390	5 ¹ / ₈	130	25/8	67	21/2	64	21/2	64	47/16	113	25.9	11.8	29.9	13.6	
1 ¹ / ₂	40	21 ⁹ / ₁₆	547	11 ⁷ / ₁₆	290	5 ¹ /8	129	27 ⁷ /8	708	15 ³ / ₈	390	5 ⁵ /8	143	31/8	79	21/2	64	3	76	$4^{7}/_{8}$	124	31.9	14.5	35.6	16.2	
2	50	2415/16	633	12 ¹ / ₁₆	307	55/8	142	3211/16	830	163/4	425	5 ¹⁵ / ₁₆	151	37/16	87	21/2	64	39/16	90	5 ¹⁵ / ₁₆	151	41.6	18.9	49.3	22.4	

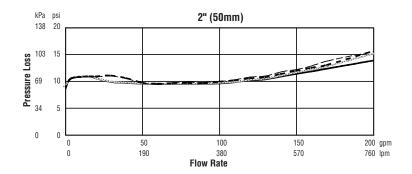


400B-A, 400B-Z

SIZE (I	SIZE (DN) DIMENSIONS														WEIG	HT			
		А		В		С		D		E (LF)		F		G		Н			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
3/4	20	103/8	263	315/16	100	315/16	100	31/2	88	711/16	195	35/8	92	21/16	52	1 9/ ₁₆	40	9.3	4.2
1	25	12 ¹ / ₄	311	413/16	122	413/16	122	37/8	98	93/16	233	4	102	2 ⁷ / ₁₆	62	1 9/16	40	13.3	6.0
11/4	32	16 ¹ / ₁₆	407	57/8	149	57/8	149	5 ¹ / ₈	129	1111/16	297	51/8	130	25/8	67	21/2	64	24.0	10.9
11/2	40	16 ⁵ /8	421	61/2	164	61/2	164	5 ¹ / ₈	129	1111/16	297	55/8	143	31/8	79	21/2	64	30.5	13.8
2	50	17 ⁵ / ₁₆	440	65/8	168	69/16	166	5 ⁵ /8	142	13 ³ /8	340	5 ¹⁵ / ₁₆	151	3 ⁷ / ₁₆	87	21/2	64	40.6	18.4











CERTIFIED

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A Watts Water Technologies Company