ES-A-C400/C400N/C400Z

For Fire Protection Applications

	Job	Name
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Job Location _____

Engineer ___

Approval _

Contractor	-
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Approval

Contractor's P.O. No.

Representative _____

LEAD FREE

ColtTM Series C400 (Colt 400), C400N, C40N, C

Features

- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Link Check Provides
 Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve Shutoffs
- May be Used for Horizontal or N
 Pattern Installations
- Replaceable Check Disc Rubber

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

A WARNING

It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States. Before installing standard material product, consult your local water authority, building and plumbing codes. The Colt C400, C400N, C400Z Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Colt C400, C400N, C400Z are normally used in health hazard applications for protection against backsiphonage, backpressure and the fouling of either check valve. The Colt C400, C400N, C400Z features Lead Free* construction to comply with Lead Free* installation requirements.

Specifications

The Colt C400, C400N, C400Z Reduced Pressure Zone Assemblies shall consist of two independent Link Check modules, a differential pressure relief valve located between and below the two modules, two drip tight shutoff valves, and required test cocks. Link Check modules and relief valve shall be contained within a sleeve accessible single housing constructed from 304 (Schedule 40) stainless steel pipe with groove end connections. Link Checks shall have reversible elastomer discs and in operation produce drip tight closure against the reverse flow of liquid caused by backpressure or backsiphonage. Lead Free* Reduced Pressure Zone Assemblies shall be constructed using Lead Free* materials. It shall comply with state codes and standards, where applicable, requiring reduced lead content. Assembly shall be Colt C400, C400N, C400Z as manufactured by the Ames Company.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



Ames Fire & Waterworks product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Fire & Waterworks Technical Service. Ames Fire & Waterworks 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 Fire & Waterworks products previously or subsequently sold.

A WATTS Brand

Configurations

- Horizontal
- "Z" pattern horizontal
- "N" pattern horizontal

Materials

- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna 'N'
- Link Checks: Noryl[®], Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Noryl[®] is a registered trademark of SABIC Innovative Plastics[™].

Approvals

- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The Unversity of Southern California (FCCCHR-USC)
 Excluding 6" Z Pattern configuration
- AWWA C551-92

For additional approval information please contact the factory or visit our website at www.amesfirewater.com



Pressure - Temperature

Temperature Range: 33°F – 140°F (0.5°C – 60°C) Maximum Working Pressure: 175psi (12.1 bar)

Note: When installing a drain line on Series C400 backflow preventer use 400/500 air gap. See ES-A-AG/EL/TC for additional information.

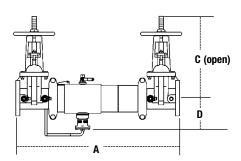
Available Models

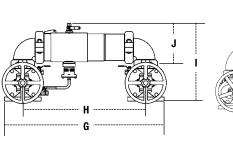
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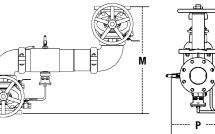
- NRS non-rising stem resilient seated gate valves
- OSY UL/FM outside stem and yoke resilient seated gate valves
- BFG UL/FM grooved gear operated butterfly valves with tamper switch
- *OSY FxG Flanged inlet gate connection and grooved outlet gate connection
- *OSY GxF Grooved inlet gate connection and flanged outlet gate connection
- *OSY GxG Grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory* Post indicator plate and operating nut available - consult factory* *Consult factory for dimensions

Dimensions – Weights

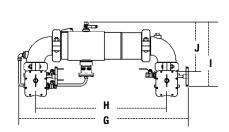


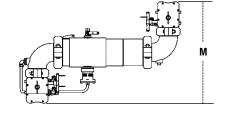


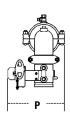


C400, C400N, C400Z

	SIZE (DN)	DIMENSIONS WEIGHT																										
			A	C (C)SY)	C (NF	RS)	D			G		H	1		J	I	N	Λ	Р			C4	00			C400	ON	
																						NF	RS	, I	OSY	NR	<i>IS</i>	03	SY
in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.
21/2	65	30¾	781	16%	416	9 %	238	6½	165	29 1⁄1	6 738	21 ½	546	15½	393	8 ¹³ ⁄16	223	211⁄4	540	9 ¾16	234	118	54	128	58	126	57	136	62
3	80	31¾	806	181%	479	10¼	260	6 ¹¹ /16	170	301/4	768	221/4	565	171⁄8	435	9 ¾16	233	23	584	10½	267	134	61	148	67	147	67	161	73
4	100	33¾	857	223⁄4	578	12 ³ ⁄16	310	7	178	35%	905	231/2	597	18½	470	9 ¹⁵ / ₁₆	252	26¼	667	11 ¾16	284	164	74	164	74	187	85	187	85
6	150	431⁄2	1105	301/%	765	16	406	81⁄2	216	44¾	1137	35¼	895	23¾ 16	589	13 ½16	332	34¼	870	15	381	276	125	298	135	317	144	339	154
8	200	49 ¾	1264	37¾	959	19 ¹⁵ ⁄16	506	9 ¹¹ / ₁₆	246	541/8	1375	401/%	1019	27 ⁷ /16	697	15 ¹ / ₁₆	399	367/8	937	17¾ 16	437	441	200	483	219	516	234	558	253
10	250	57 ¾	1467	45¾	1162	23 ¹³ ⁄16	605	113/16	285	66	1676	49 ½	1257	321/2	826	17 5⁄16	440	44 ½	1124	20	508	723	328	783	355	893	405	950	431

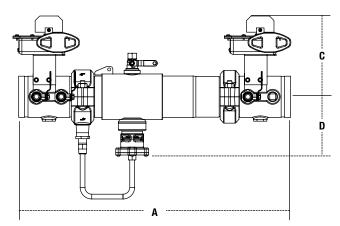


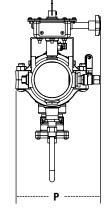




C400NBFG/C400ZBFG

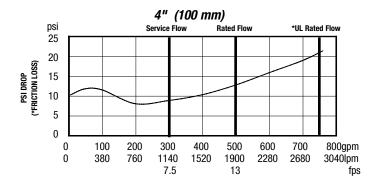
SIZE	IZE (DN) DIMENSIONS													WEIGHT		
		6	ì	Н		I		J		М		Р		C400N, C400Z		
in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	lbs.	kgs.	
21/2	65	23	584	23	584	15½	394	91⁄2	241	19¾	502	11 ¹³ ⁄16	300	67	30	
3	80	24	610	24	610	16 ⁵ ⁄16	414	10 ¹ /16	256	211⁄4	540	121/8	308	70	32	
4	100	35%	905	35%	905	17 ³ ⁄16	437	10 ¹⁵ ⁄16	279	23 ½	597	125⁄8	321	87	39	
6	150	35¼	895	35¼	895	201/2	521	13½	343	271/4	692	15	382	160	73	

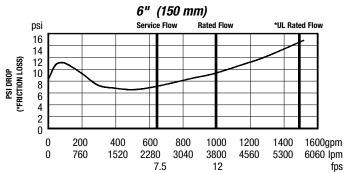




C400	O BFG												
SIZ	E (DN)				DIMENSIONS								
		A		(C	0)	F)				
in.	тт	in.	тт	in.	тт	in.	тт	in.	тт	lbs.	kgs.		
4	100	29	737	7¾	197	6%	162	9 ½	241	66	30		
6	150	36½	927	9 ¹¹ / ₁₆	246	71/16	189	14¼	362	122	55		

Capacity - C400 BFG





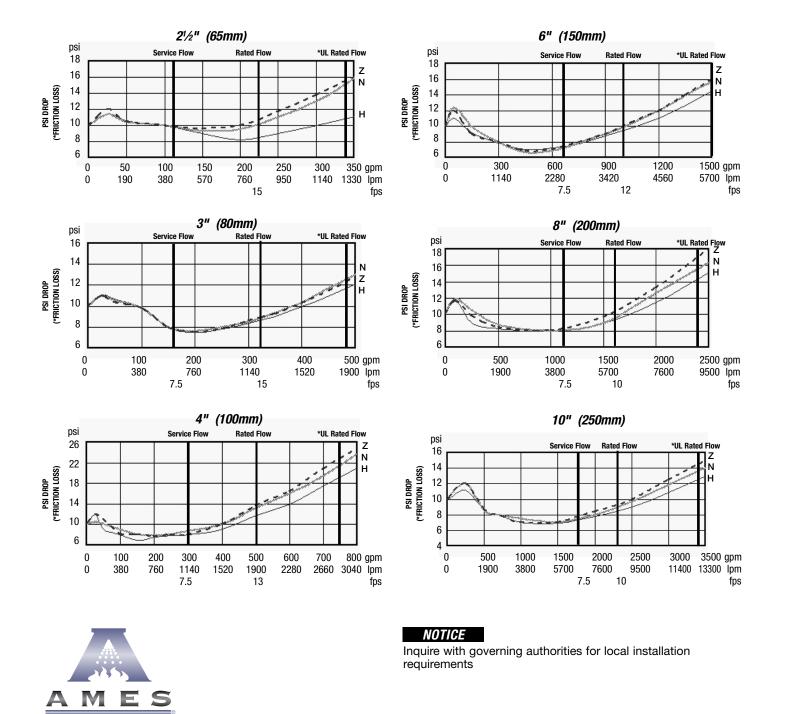
Capacity

UL/FM Certified Flow Characteristics N&Z Flow characteristics collected using butterfly shutoff valves.

____ Horizontal _____ N - Pattern _____Z - Pattern

Flow capacity chart identifies valve performance based upon rated water velocity up to 25fps

- Service Flow is typically determined by a rated velocity of 7.5fps based upon schedule 40 pipe.
- Rated Flow identifies maximum continuous duty performance determined by AWWA.
- UL Flow Rate is 150% of Rated Flow and is not recommended for continuous duty.
- AWWA Manual M22 [Appendix C] recommends that the maximum water velocity in services be not more than 10fps.



FIRE & WATERWORKS

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