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

LEAD FREE*

Colt[™] Series C400 (Colt 400), C400N (Colt 400N), C400Z (Colt 400Z)

Reduced Pressure Zone Assemblies

Sizes: 21/2" - 10"

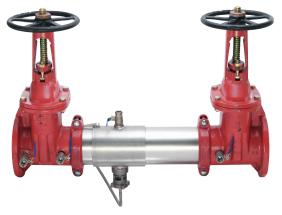
The Colt C400, C400N, C400Z Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Colt C400, C400N, C400Z are normally used in health hazard applications for protection against backsiphonage, backpressure and the fouling of either check valve. The Colt C400, C400N, C400Z features Lead Free* construction to comply with Lead Free* installation requirements.

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

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 Fire & Waterworks.



C400 OSY (Colt 400)



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.

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



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.

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 C511-97

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

Suffix:

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

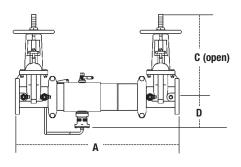
outlet gate connection

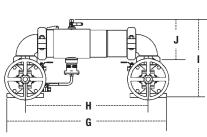
†OSY GxF — Grooved inlet gate connection and flanged outlet gate connection

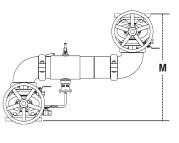
†OSY GxG — Grooved inlet gate connection and grooved outlet gate connection ◊

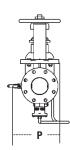
Available with grooved NRS gate valves — consult factory+ Post indicator plate and operating nut available — consult factory† †Consult factory for dimensions

Dimensions - Weights





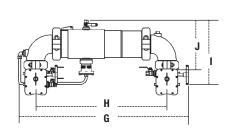


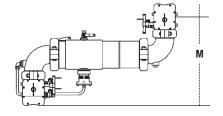


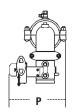
C400, C400N, C400Z

SIZE	ZE DIMENSIONS																	WEI	GHT									
	A C (OSY) C (NRS) D)	(ì	ŀ	H I		J	J		M)	C/		400		C400N		ON						
													NRS		OSY		NRS		08	SY								
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.
21/2	30¾	781	16%	416	93/8	238	61/2	165	291/16	738	211/2	546	15½	393	813/16	223	211/4	540	93/16	234	118	54	128	58	126	57	136	62
3	31¾	806	187/8	479	101/4	260	611/16	170	301/4	768	221/4	565	171//8	435	93/16	233	23	584	10½	267	134	61	148	67	147	67	161	73
4	33¾	857	223/4	578	123/16	310	7	178	35%	905	231/2	597	18½	470	915/16	252	261/4	667	113/16	284	164	74	164	74	187	85	187	85
6	431/2	1105	301//8	765	16	406	81/2	216	443/4	1137	351/4	895	233/16	589	131/16	332	341/4	870	15	381	276	125	298	135	317	144	339	154
8	493/4	1264	37¾	959	19 ¹⁵ ⁄ ₁₆	506	911/16	246	541//8	1375	401//8	1019	277/16	697	15 ¹¹ / ₁₆	399	367/8	937	17 ³ ⁄ ₁₆	437	441	200	483	219	516	234	558	253
10	573/4	1467	45¾	1162	2313/16	605	113/16	285	66	1676	491/2	1257	321/2	826	175/16	440	441/2	1124	20	508	723	328	783	355	893	405	950	431

Dimensions - Weights

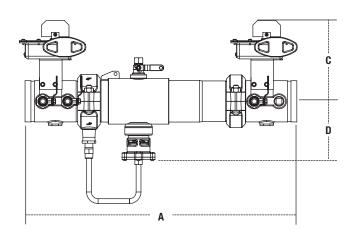


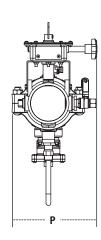




C400NBFG/C400ZBFG

SIZE	DIMENSIONS												WE	IGHT
	(3	Н		I		J		M		P		C400N, C400Z	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
21/2	23	584	23	584	15½	394	91/2	241	19¾	502	11 ¹³ / ₁₆	300	67	30
3	24	610	24	610	165/16	414	101/16	256	211/4	540	121/8	308	70	32
4	35%	905	35%	905	17¾16	437	1015/16	279	231/2	597	12%	321	87	39
6	351/4	895	351/4	895	201/2	521	13½	343	271/4	692	15	382	160	73

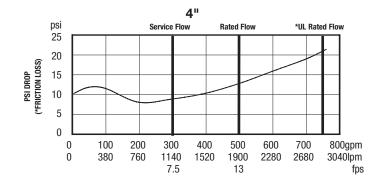


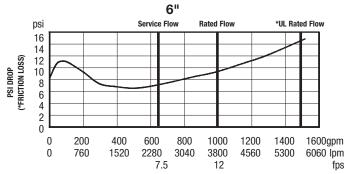


C400 BFG

SIZE		WEI	GHT							
	l l	4	(3	1	D	F)		
in.	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
4	29	737	73/4	197	63%	162	91/2	241	66	30
6	36½	927	911/16	246	77/16	189	141/4	362	122	55

Capacity - C400 BFG





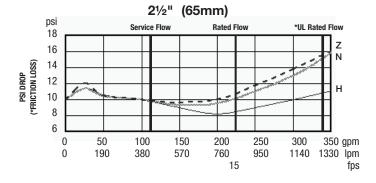
Capacity

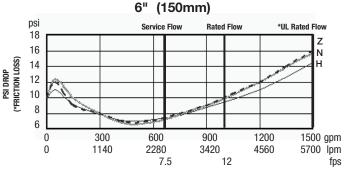
UL/FM Certified Flow Characteristics N&Z Flow characteristics collected using butterfly shutoff valves.

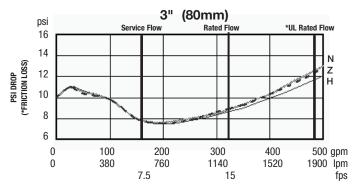
— Horizontal — N - Pattern ----Z - Pattern

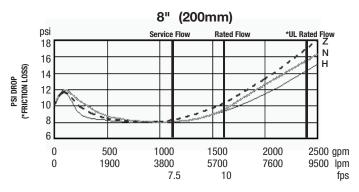
Flow capacity chart identifies valve performance based upon rated water velocity up to 25fps

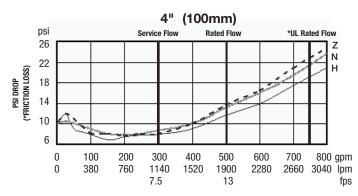
- Service Flow is typically determined by a rated velocity of 7.5fps based upon schedule 40 pipe.
- Rated Flow identifies maximum continuous duty performance determined by AWWA.
- UL Flow Rate is 150% of Rated Flow and is not recommended for continuous duty.
- AWWA Manual M22 [Appendix C] recommends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

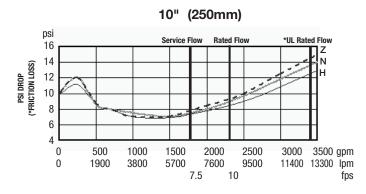












A M E S

NOTICE

Inquire with governing authorities for local installation requirements

A WATTS Brand

USA: Backflow Tel: (978) 689-6066 • Fax: (978) 975-8350 • AmesFireWater.com **USA: Control Valves** Tel: (713) 943-0688 • Fax: (713) 944-9445 • AmesFireWater.com

Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • AmesFireWater.ca